

Digital Synthesized AM/FM Stereo Tuner TV JAPAN ONLY

# T-117/T-117L T-03/T-03L



T-03L



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## **Specifications**

| <fm radio=""></fm>                 |   |
|------------------------------------|---|
| Intermediate Frequency             | 10.7MHz   |
| Frequency kange                    | 76.1~ 89.9MHz(JA Model Only)<br>87.5~108MHz (SD, EK Model)                    |
|                                    | 87.9~107.9MHz(UZ Model Only)  |
|                                    | 13dBf(JA, EK, UZ Model)   |
| (Mono 3% T.H.D)                    | 16dBf(SD Model Only)  |
| Signal to Noise Katio (Stereo)     | 70dB  |
| IF Response Ratio                  | 7VdB  |
| Distortion(1KHz, Stereo)           |   |
| Stereo Separation(1KHs)            | 40dB  |
| Frequency Response (30Hz ~15KHz)   | ±1.5dB  |
| Out put Level (Mono)               | 45dBf 700mV±3dB   |
|                                    | 100m4 - 20D   |
| <am(mw)radio></am(mw)radio>        |   |
| Frequency Range                    | 522~1611KHz(JA, SD, EK Model)   |
|                                    | 530~1620KHz (UZ Model Only)   |
| Usable Sensitivity(20dB S/N)       | 76 2dRf   |
| Signal to Noise Ratio              | 42dB  |
| Image Kesponse Ratio(IKHz)         | 30dB  |
| Distortion                         | 40dB  |
| Frequency Response(120Hz~2KHz)     | +94B  |
| Output Level                       | $\begin{array}{c} \pm 3dB \\ 210mV \pm 3dB \end{array}$                       |
| <lw radio=""> (SD Model Only)</lw> |   |
| Intermediate Frequency             | 450KHz  |
| Frequency Range                    | 158 ~ 281KHz  |
| Usable Sensitivity(20dB S/N)       |   |
| Image Response Ratio               | 25dB  |
| Distortion                         | 27dB  |
| Output Level                       | 176 210mV±3dB   |
| S/N Ratio                          | 42dB  |
| <tv> (JA Model Only)</tv>          |   |
| Intermediate Frequency             | 54,25MHz  |
| Channel Range                      | 1 ~ 69ch  |
| Usable Sensitivity(30dB S/N)       | 2ch: 20dBf  |
| Signal to Noise Ratio              | 32ch;25dBf<br>  |
|                                    | Stereo: 45dB  |
|                                    | Main: 48dB  |
|                                    | Sub: 48dB   |
|                                    | 32ch Mono: 40dB   |
|                                    | Stereo: 40dB<br>Main: 40dB  |
|                                    | Sub-10dR  |
| Frequency Response (50Hz ~10KHz)   | +1,-3dB   |
| Channel Separation(LVUs)           | 1.8% Stereo 25dB  |
| Channel Coparation(IMIZ)           | Stereo 25dB<br>Main-Sub 40dB  |
|                                    | Sub-Main 45dB   |
| Output Lebel                       | 700mV±3dB   |
| ≪GENERAL>                          |   |
| Power Supply                       | 100V, 50/60Hz(JA Model Only)  |
|                                    | 220V. 50Hz(SD. EK Model)  |
| Payer Consumption                  | 120V, 60Hz(UZ Model Only)   |
| Power Consumption Semiconductors   | 15W   |
|                                    | 241C's 59 Transistors, 8 FET's, 73 Diodes, 10 Zener Diodes                    |
|                                    | (JA Model Only)   |
|                                    | 211C's 57 Transistors, 6 FET's, 62 Diodes, 10 Zener Diodes                    |
|                                    | (SD Model Only)   |
|                                    | 211C's 49 Transistors, 3 FET's, 59 Diodes, 10 Zener Diodes<br>(EK Model Only) |
|                                    | 211C's 50 Transistors, 6 PET's, 61 Diodes, 10 Zener Diodes                    |
| Disease                            | (117. Model Only)   |
| UI MENSIONS                        | 453 (W) × 62 (H) × 323 (D) un 3.6 Kg  |
| #O1PH1                             | 3.6Kg   |

### Parts Locations and Disassembly Instructions

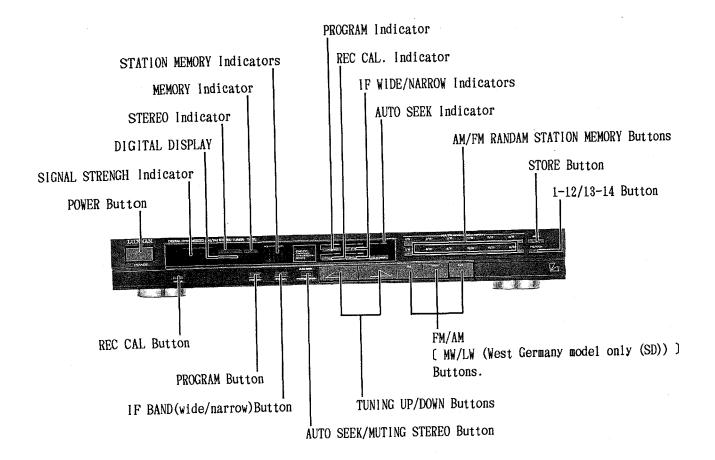


Figure 1

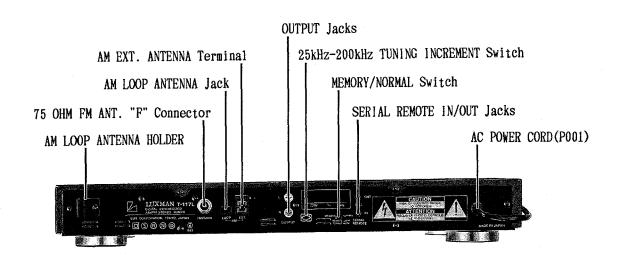
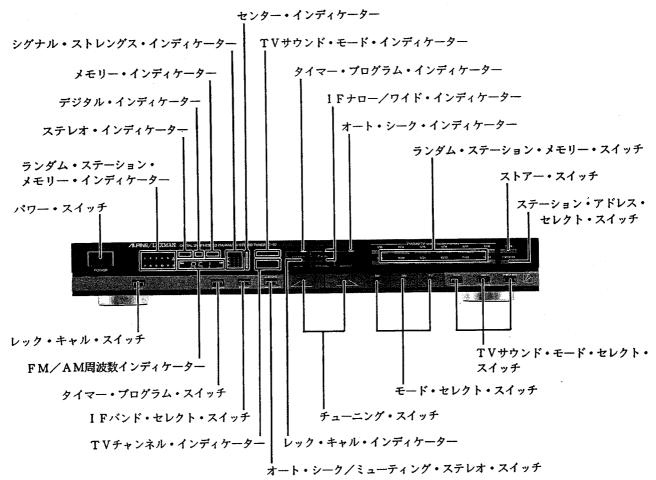
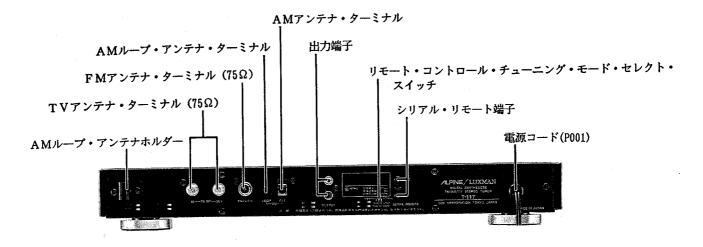


Figure 2

#### • Japanese model only(JA)



< 3 図>



< 4 図>

#### 1. Removal of Top Cover

- Remove six screws marked "O" as shown in Figure 5 and 6.
- (2) Pull out the Top cover in the direction of the arrow as shown in Figure 3.

#### 1. 上蓋の外し方

- (1) 6本のネジ"○"を外します。(5,6図参照)
- (2) 矢印の方向に引き上げれば、上蓋は外すことができます。(3 図参照)

#### 2. Removal of Main P.C. Board

- After removal of Top cover, remove eleven screws marked "※" as shown in Figure 6 and 7.
- (2) Disconnect all wires from the Main P.C. Board.
- (3) Main P.C. Board can be removed by pulling it forward.

#### 2. メイン基板の外し方

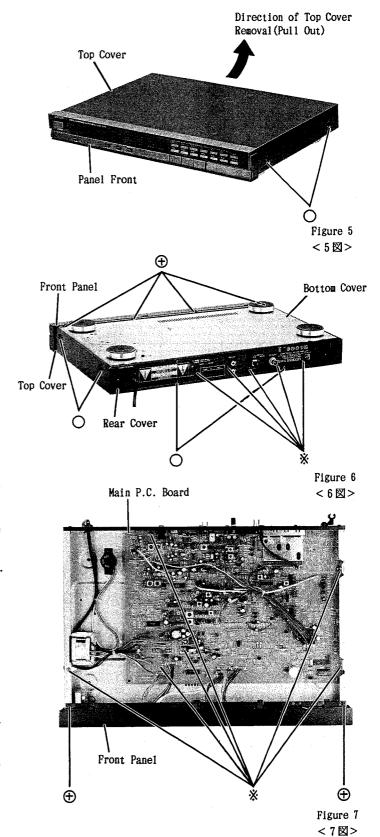
- (1) 上蓋を外してから11本のネジ "※" を外します。 (6, 7図参照)
- (2) メイン基板から出ているすべてのリードを外します。
- (3) メイン基板を手前に引いて外します。

#### 3. Removal of Front Panel

- Remove six screws marked "⊕" as shown in Figure 6 and 7.
- (2) Front panel can be removed by pulling it forward. But when the panel is engaged tightly, pull the panel end little by little, and the panel will be removed easily.

#### 3. フロント・パネルの外し方

- (1) 上蓋を外してから、6本のネジ \*⊕\* を外します。(6,7図参照)
- (2) フロント・パネルを手前に引いて外します。パネルを 外すときパネルはセットにしっかりと取りつけてあり ますので、パネルの両端を持って少しづつ引くように して外してください。



#### 4. Removal of Front Frame

- (1) After removal of Front Panel, remove eight hooks(a) as shown in Figure 8 and 9.
- (2) Unplug all the connectors from the display P.C. board and switch P.C. board. The front frame will be removed together with the P.C. boards.

#### 4. フロント・フレームの外し方

- (1) フロント・パネルを外してから、8個のホック(a) を 外します。(8,9図参照)
- (2) ディスプレイ基板,スイッチ基板から出ている全ての コネクターを外しますと,各基板と一緒にフロント・ フレームは外れます。

#### 5. Removal of Display P.C. Board

- After removal of Front Frame, remove three screws marked " ◎ " as shown in Figure 10.
- (2) Remove three hooks(b) as shown in Figure 10.

#### 5. ディスプレイ基板の外し方

- (1) フロント・パネルを外してから、3本のネジ \*◎ \* を 外します。 (10図参照)
- (2) 3 個のツメ(b) を外しますと、ディスプレイ基板は 外れます。

#### 6. Removal of Switch P.C. Board

- (1) After removal of Front Frame, remove three screws marked "□" as shown in Figure 10.
- (2) Remove eight hooks (c) as shown in Figure 10.

#### 6. スイッチ基板の外し方

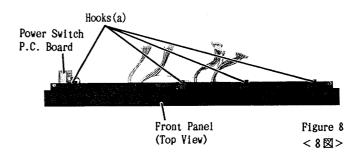
- (1) フロント・フレームを外してから、3本のネジ "□"を外します。(10図参照)
- (2) 8 個のツメ(c) を外しますと、スイッチ基板は外れます。

#### 7. Removal of Power Switch P.C. Board

(1) After removal of Front Frame, remove two screws marked "O" as shown in Figure 10.

#### 7. パワースイッチ基板の外し方

(1) フロントフレームを外してから, 2本のネジ "回" を 外しますと, パワースイッチ基板は外れます。 (10図参照)



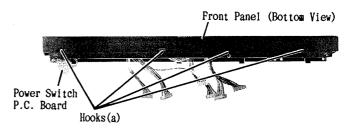
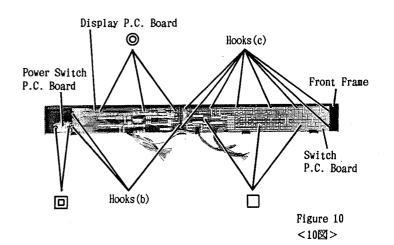


Figure 9 < 9図>



## **Adjustment Procedures**

MW(SD Model Only), AM(EK/UZ Model) AM Antenna (1) Connection Terminal - 60cm -Output (L.R) • AC VTVM AM Signal Loop Set Cenerator Antenna Figure 11 Oscilloscope T.P.1 0 DC VTVM Set

Figure 12

#### (2) Control Setting

Power Switch----ON
FM/AM/(MW/LW) Switch----AM(MW)
others-----OFF

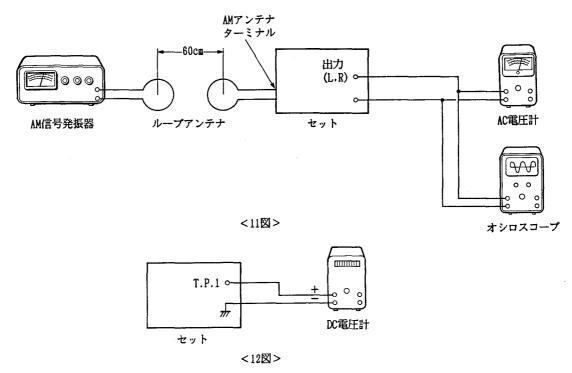
#### (3) Adjustment (EK.SD.UZ Model)

| step | Description                           | Signal<br>Generator                                     | Dial<br>Control                         | Adjust<br>Points        | Test<br>Points  | Connection | Remarks  |
|------|---------------------------------------|---|---|-------------------------|-----------------|------------|--|
| 1    | Vf                                    |   | 603KHz(EK.SD)<br>600KHz(UZ)             | L306                    | TP1             | Figure 12  | Adjust Vf to 2.2±0.1V<br>at L306   |
| _    | Adjustment                            |   | 1404Kiiz (EK.SD) VC304<br>1400Kiiz (UZ) |                         |                 | rigure 12  | Adjust Vf to 7.1±0.1V at VC304   |
| 2    | Sensitivity                           | 603KHz(EK.SD)<br>600KHz(UZ)<br>60dBa<br>(400Hz.30%)     | 603KHz(EK·SD)<br>600KHz(UZ)             | L302                    | Output          | Figure 11  | Adjust the output to maximum at L302   |
| ۷    | Adjustment                            | 1404KHz (EK.SD)<br>1400KHz (UZ)<br>60dBm<br>(400Hz.30%) | 1404KHz (EK·SD)<br>1400KHz (UZ)         | VC302                   | (L.R)           | rigule 11  | Adjust the output to maximum at VC304  |
| 3    | SIG IND &<br>MUTE level<br>Adjustment | 1008KHz (EK·SD)<br>1000KHz (UZ)<br>55dBm<br>(400Hz·30%) | 1008KHz (EK.SD)<br>1000KHz (UZ)         | VR302<br>VR301<br>VR501 | Output<br>(L.R) | Figure 11  | Set VR501 to the position which is *shightly turned counterclockwise from horizontal. Adjust the level to 55dBm ± 12dB at VR302 with the MUTE switch set to ON. Adjust the level to 75 +201 dBm at both VR501 and VR301 s that one or two elements of SIG IND light up. Note:For the section marked with *. refer to VR501 shown in Fig. 21. |

#### 調整方法

#### AM(JA Model Only)





#### (2) スイッチ類のセット位置

#### (3) 調整方法 (JAモデル)

| 順序 | 調整項目                        | 発振器周波数                          | 受信周波数   | 調整個所                    | テスト<br>ポイント | 接続図     | 調 整 方 法   |
|----|-----------------------------|---------------------------------|---------|-------------------------|-------------|---------|---|
|    | - A manufel.                |                                 | 603KHz  | L306                    | <b></b>     | A O FOR | L306で 2.2±0.1Vに調整   |
| 1  | V f 調整                      |                                 | 1404KHz | VC304                   | T.P.1       | 12図     | VC304 で 7.1±0.1Vに調整   |
|    |                             | 603KHz<br>60dBm<br>(400Hz.30%)  | 603KHz  | L302                    | 出力          | 4.4 50/ | L802で出力最大に調整  |
| 2  | 感度調整                        | 1404KHz<br>60dBm<br>(400Hz.30%) | 1404KHz | VC302                   | (L.R)       | 11図     | VC302 で出力最大に調整  |
| 3  | SIG. IND<br>& MUTE<br>レベル調整 | 1008KHz<br>55dBm<br>(400Hz,30%) | 1008KHz | VR302<br>VR301<br>VR501 | 出力<br>(L.R) | 11図     | VR501 を *水平より少し反時計<br>方向よりに設定し、MUTE-SV ON<br>状態で VR302で 55dBm±12dBに<br>調整、この時 SIG.1NDが1~2<br>点灯する様 VR301とVR501 で<br>75 +2010dBm に調整<br>(注) * 印は21図のVR501 を参照願い<br>ます。 |

#### LW(SD Model Only)

#### (1) Connection

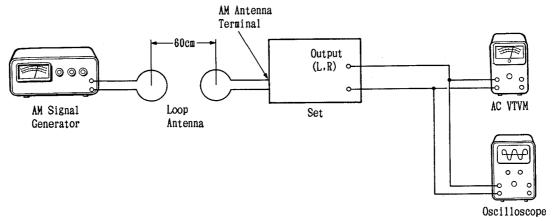


Figure 13

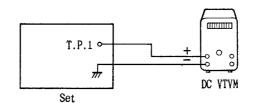


Figure 14

#### (2) Control Setting

| Power Switch. | ON       |
|---------------|----------|
| FM/AM/(MW/LW) | SwitchLW |
| others        | OFF      |

#### (3) Adjustment

| step | Description | Signal<br>Generator         | Dial<br>Control | Adjust<br>Points | Test<br>Points | Connection | Remarks                               |
|------|-------------|-----------------------------|-----------------|------------------|----------------|------------|---------------------------------------|
| 1 Vf |             |                             | 180KHz          | L305             | TP1            | Figure 14  | Adjust Vf to 2.4±0.1V<br>at L305      |
|      | Adjustment  |                             | 261KHz          | VC303            | 111            | Ligure 14  | Adjust Vf to 5.3±0.1V at VC303        |
| 2    | Sensitivity | 180KHz.90dBm<br>(400Hz.30%) | 180KHz          | L301             | Output         | Pigure 13  | Adjust the output to maximum at L301  |
| _    | Adjustment  | 261KHz.90dBm<br>(400Hz.30%) | 261KHz          | VC301            | (L.R)          | Pigule 10  | Adjust the output to maximum at VC301 |

#### FM(SD/EK/UZ Model)

(1) Dummy Antenna

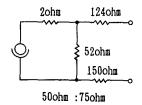


Figure 15

#### (2) Connector

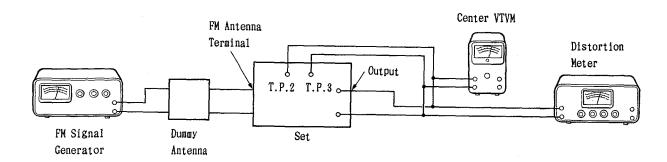


Figure 16

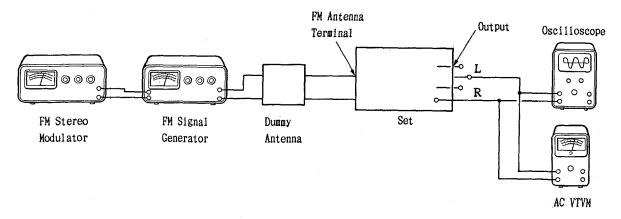


Figure 17

#### (3) Control Setting

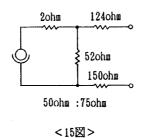
Power Switch ON FM/AM/(MW/LW) Switch FM others OFF

#### (4) Adjustment(EK.SD.UZ model)

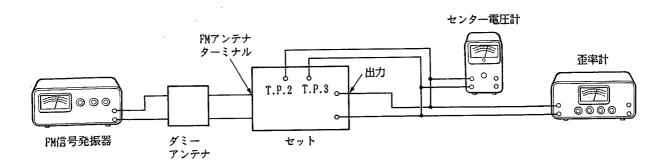
| step | Description   | Signal   | Dial               | Adjust  | Test            | Connection | Remarks   |
|------|---|--|--------------------|---|-----------------|------------|---|
| 1    | lF<br>Adjustment                                      | Generator 98.1MHz 65dBf Non Modulation                     | Control<br>98.1MHz | Points<br>L105                                | T.P.2<br>T.P.3  | Pigure 16  | Adjust the level to 0±20mV at L105  |
| 2    | Mono<br>Distortion<br>Adjustment                      | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | VR204<br>L206<br>L205<br>L101<br>L208<br>L209 | Output<br>(L.R) | Figure 18  | Turn VR202 fully clockwise and VR201 fully counterclockwise. Adjust the output to 700mV at VR404.  Turn VR204 fully counterclockwise and turn it clockwise little by little untic the distortion will lower twice.  AT this position adjust the distortion to minimum.  Readjust VR404 to 700mV and adjust the distortion to minimum at L206.L205.L101.L208 and L209 in this order. |
| 3    | STEREO Distortion Adjustment                          | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | L104  | Output<br>(L.R) | Figure 16  | Adjust the dislortion to minimum at L104.   |
| 4    | Pulse Detectiont Output Adjustment                    | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | VR404   | Output<br>(L.R) | Figure 16  | Adjust the output to 700mV +0.5dB at VR404 with the REC CAL switch set to ON.   |
| 5    | PLL Detection Output Distortion Adjustment            | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | VR201<br>VR203<br>L202                        | Output<br>(L.R) | Figure 16  | Turn YR201 fully clockwise.  Adjust the output to 700mV +0.5dB at YR203.  Adjust the distortion to minimum at L202.   |
| 6    | PUL/pulse Detection Output Switching Level Adjustment | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | VR201   | Output<br>(L.R) | Figure 16  | Adjust at VR201 so that the output level is varied from 700mV ±0.5dB to 700mV +1.5dB.   |
| 7    | PLL Detection Output Adjustment                       | 98.1MHz<br>36dBf<br>1KHz.75KHz<br>Deviation                | 98.1MHz            | VR203   | Output<br>(L.R) | Figure 16  | Adjust the output to 700mV<br>+1.5dB at VR203 with the REC<br>CAL switch set to ON.   |
| 8    | SIG IND<br>Light<br>Adjustment                        | 98.1MHz<br>19dBf<br>(EK.UZ)<br>22dBf<br>(SD)               | 98.1MHz            | VR103<br>VR102                                | Output<br>(L.R) | Figure 16  | Turn VR108 fully<br>counterclockwire.<br>Adjust at VR102 so that the<br>first element of SIG IND<br>lights up   |
| 9    | IF NARROW<br>Again<br>Adjustment                      | 98.1MHz 66dBf 1KHz.75KHz Deviation                         | 98.1MHz            | VR101   | Output<br>(L.R) | Figure 16  | Adjust at VR101 so that SIG<br>IND lights up, with the NARROW<br>switch set to ON.  |
| 10   | Separation<br>Adjustment                              | 98.1MHz<br>66dBf<br>1KHz.75KHz<br>Deviation<br>L(R) signal | 98.1MHz            | VR401<br>VC401<br>VR402<br>VC402              | Output<br>(L.R) | Pigure 17  | Receive an L-channel to minimum at VR401 and VC401.  (Adjust the waveform leaking to L-channel to minimum at VR402 and VC402.)  |

#### FM(JA Model Only)

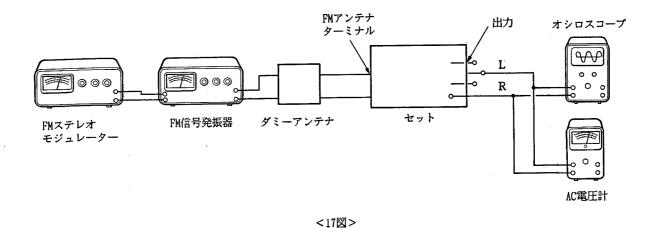
(1) ダミーアンテナ



#### (2) 接続図



<16図>

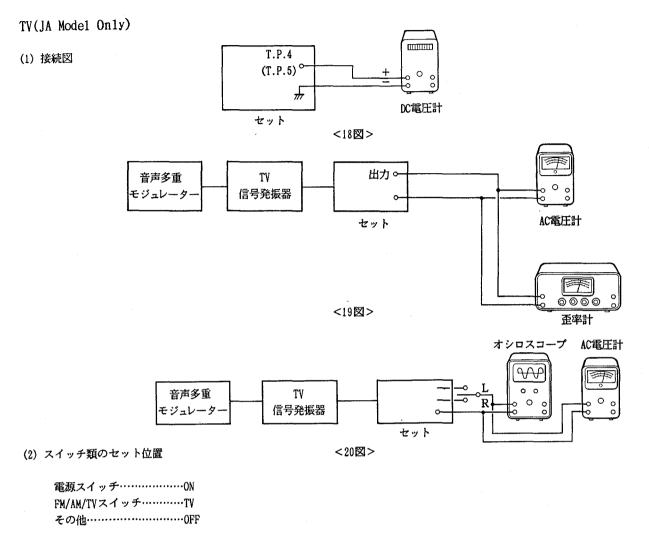


(3) スイッチ類のセット位置

電源スイッチ・・・・・・ON FM/AM/TVスイッチ・・・・・FM その他・・・・・・OFF

#### (4) 調整方法 (JAモデル)

| 順序 | 調整項目                       | 発振器周波数  | 受信周波数 | 調整個所  | テスト<br>ポイント    | 接続図 | 調 整 方 法   |
|----|----------------------------|---|-------|---|----------------|-----|---|
| 1  | lF調整                       | 84MHz<br>85dBf<br>Non Modulation                    | 84MHz | L105  | T.P.2<br>T.P.3 | 16🖾 | L105で 0 ±20mVに調整  |
| 2  | モノラル歪調整                    | 84MHz<br>36dBf<br>1KHz.75KHz<br>Deviation           | 84MHz | VR204<br>L206<br>L205<br>L101<br>L208<br>L209 | 出力<br>(L.R)    | 16図 | VR202 を時計方向, VR201 を<br>反時計方向に廻し切り, VR404 で<br>出力を700mV に設定し, VR204 を<br>反時計方向に廻し切り, 少しずつ<br>戻し歪が2度目に小さくなる所で<br>最小にする。VR404 を再度700mV<br>に設定し, L206,L205,L101,L208,<br>L209の順で歪を最小にする。 |
| 3  | ステレオ歪調整                    | 84MHz<br>36dBf<br>1KHz.75KHz<br>Deviation           | 84MHz | L104  | 出力<br>(L.R)    | 16⊠ | L104で歪を最小にする。   |
| 4  | パルス検波<br>出力調整              |   |       | VR404   | 出力<br>(L.R)    | 16⊠ | レック・キャル・スイッチ-ON<br>VR404 で700mV+1.5dB に調整   |
| 5  | PLL 検波<br>出力歪調整            | 84MHz<br>36dBf<br>1KHz.75KHz<br>Deviation           |       | VR201<br>VR203<br>L202                        | 出力<br>(L.R)    | 16⊠ | VR201 を時計方向に廻し切り,<br>VR203 で出力を700mV+0.5dB に<br>調整し, L202で歪を最小にする。  |
| 6  | PLL/バルス<br>検波出力<br>切換レベル調整 | 84MHz<br>36dBf<br>1KHz.75KHz<br>Deviation           | 84MHz | VR201   | 出力<br>(L.R)    | 16⊠ | VR201 で700mV+0.5dB から<br>700mV+1.5dB に変化する様調整   |
| 7  | PLL 検波<br>出力調整             | 84MHz<br>36dBf<br>1KHz.75KHz<br>Deviation           | 84MHz | VR203   | 出力<br>(L.R)    | 16⊠ | レック・キャル・スイッチ-ON<br>VR203 で700mV+1.5dB に調整   |
| 8  | SIG IND 点灯調整               | 84MHz<br>19dBf<br>1KHz.75KHz<br>Deviation           | 84MH2 | VR108<br>VR102                                | 出力<br>(L.R)    | 16⊠ | YR103 を反時計方向に廻し切り,<br>VR102 でシグナル・インディケー<br>ター第 1 灯が点灯する様調整   |
| 9  | IF. NARROW<br>ゲイン調整        | 84MHz<br>19dBf<br>1KHz.75KHz<br>Deviation           | 84MHz | VR101   | 出力<br>(L.R)    | 16🖾 | NARROW SW-ON<br>VR101 でシグナル・インディケー<br>ターが点灯する様調整  |
| 10 | セパレーション<br>調整              | 84MHz<br>60dBf<br>1KHz.75KHz<br>Deviation<br>L(R)信号 | 84MHz | VR401<br>VC401<br>VR402<br>VC402              | 出力<br>(L.R)    | 17🖾 | L chを受信し,R chへのもれ波形<br>をVR401,VC401 で最小にする。<br>(R chも同様にVR402,VC402 で<br>最小にする)   |



#### (3) 調整方法 (JAモデル)

| 順 序 | 調整項目          | 発振器周波数  | 受信周波数            | 調整個所  | テスト<br>ポイント | 接続図 | 調 整 方 法                         |
|-----|---------------|---|------------------|-------|-------------|-----|---------------------------------|
| 1   | AGC 電圧調整      | 2ch<br>101.75MHz<br>75dBμ<br>1KHz.25KHz<br>Deviation  | 2ch<br>101.75MHz | VR104 | T.P.4       | 18⊠ | VR104 で 4±1.0Vに調整               |
| 2   | 感度調整          | 2ch<br>101.75MHz<br>20dBμ<br>Non Modulation           | 2ch<br>101.75MHz | L604  | 出力          | 19🖾 | L604で歪を最小に調整                    |
| 3   | PILTER調整      | 2ch<br>101.75MHz<br>64dBル<br>ステレオ                     | 2ch<br>101.75MHz | VR701 | T.P.5       | 18⊠ | VR701 で電圧を最大に調整                 |
| 4   | セパレーション<br>調整 | 2ch<br>101.75MHz<br>L(R)信号<br>1KHz.25KHz<br>Deviation | 2ch<br>101.75MHz | VR702 | 出力          | 20図 | VR702 でL→R, R→Lの<br>もれが同一になる様調整 |

## **Adjustment Locations**

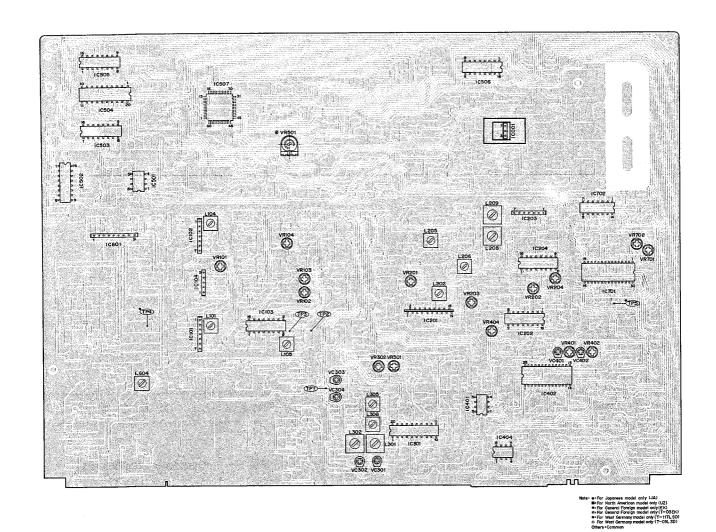
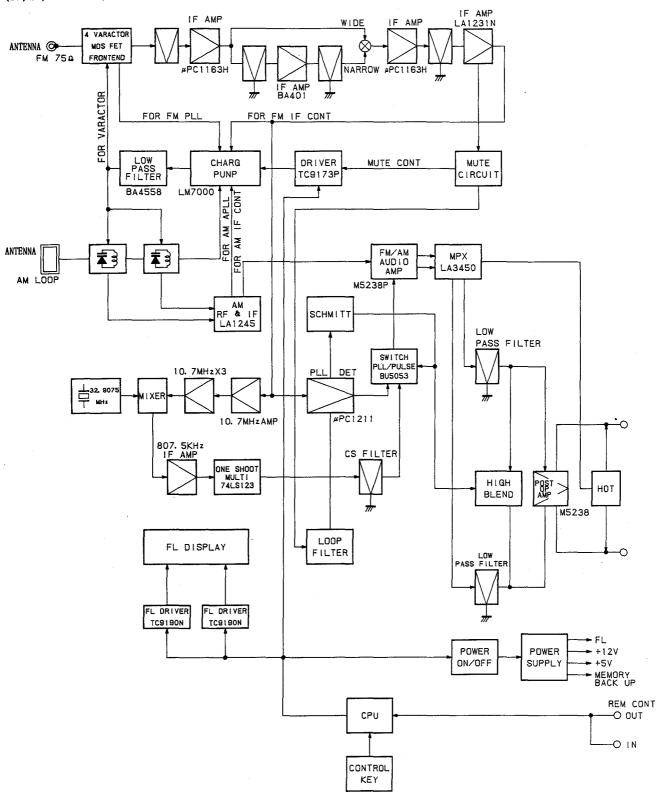


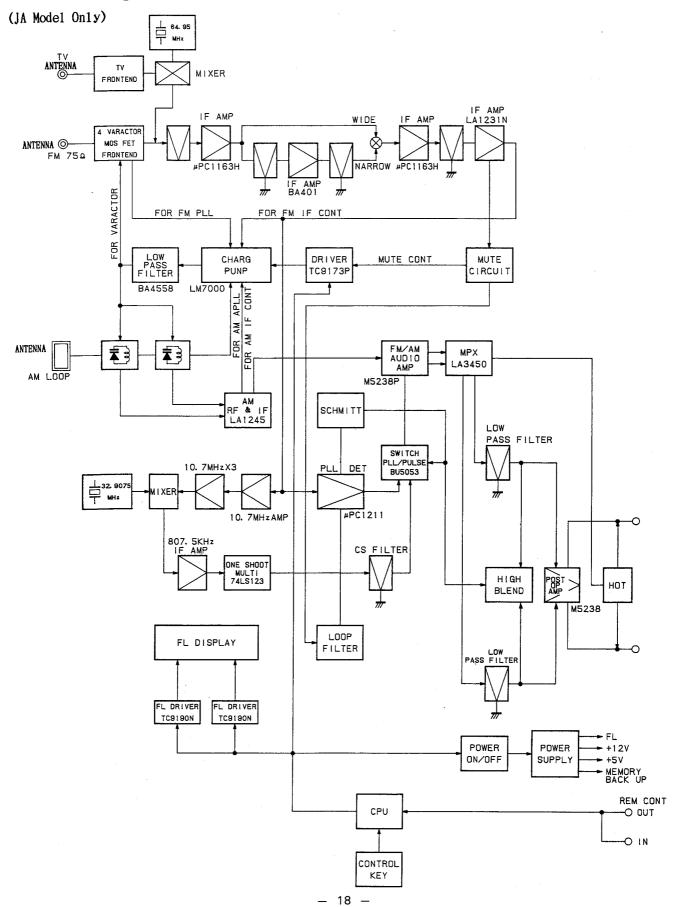
Figure 21 <21図>

### **Block Diagram**

(SD/EK/UZ Mode1)

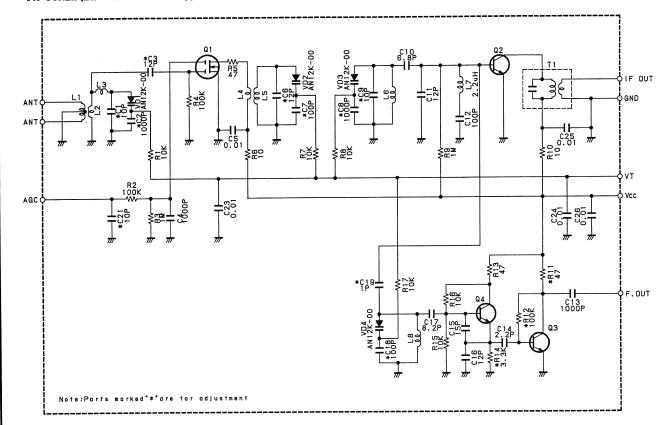


### **Block Diagram**

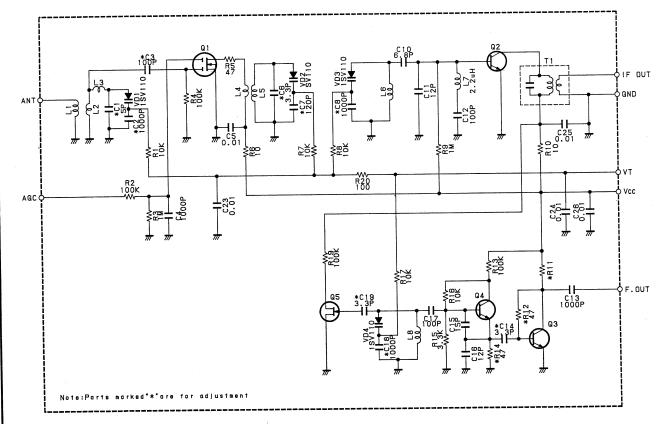


### FM Tuner Schematic Diagram

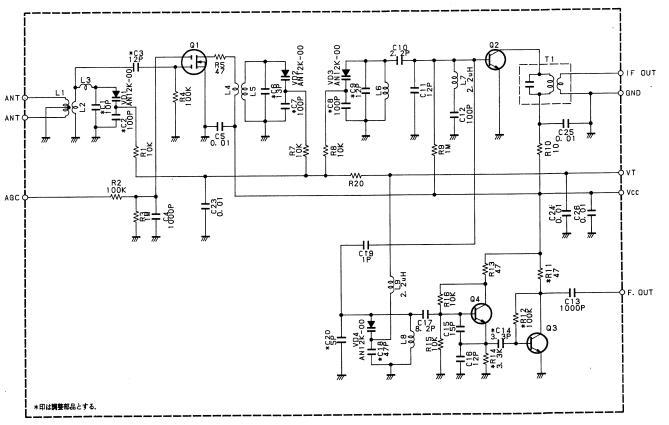
FM TUNER(EK, UZ Model only)



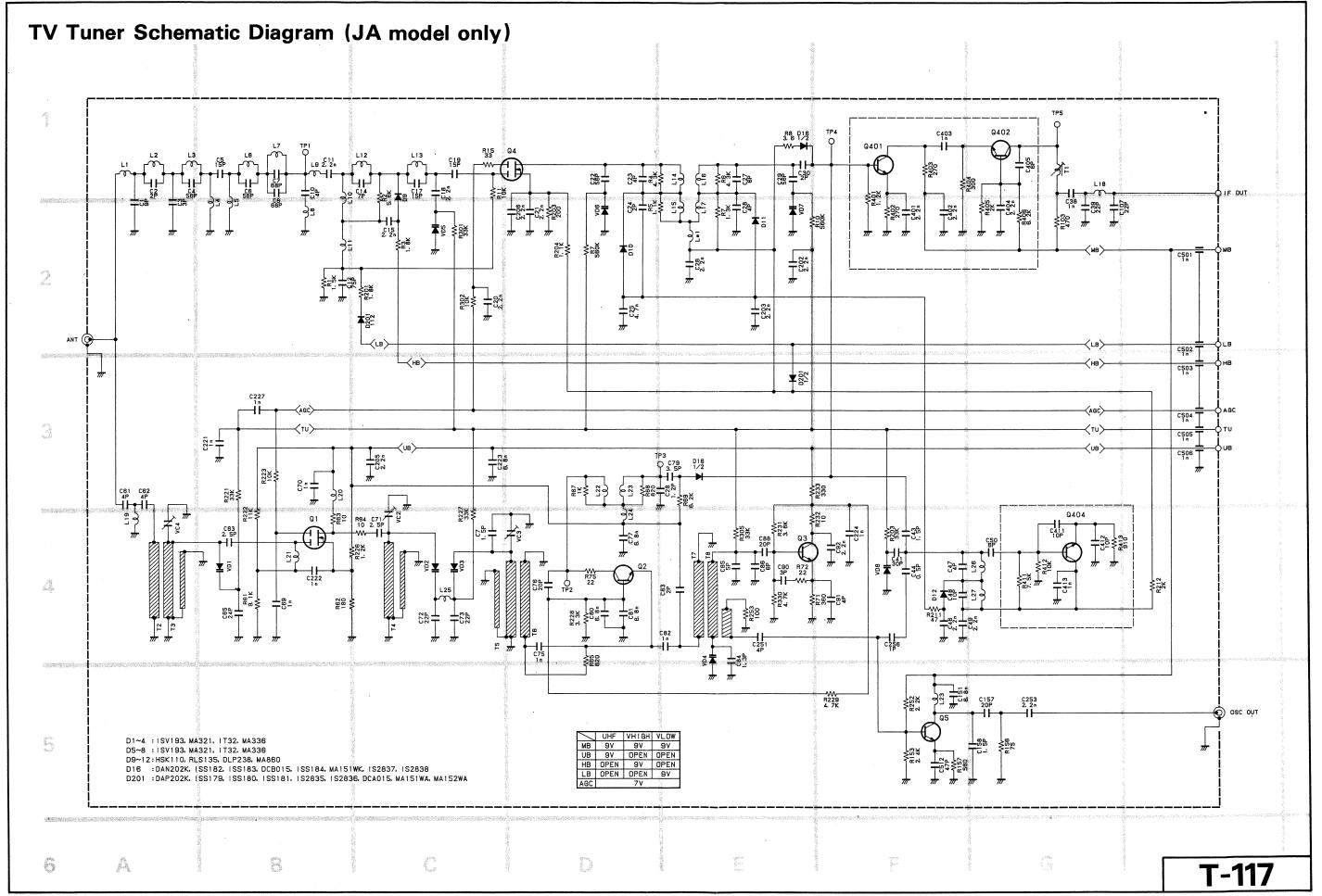
FM TUNER(SD Model only)

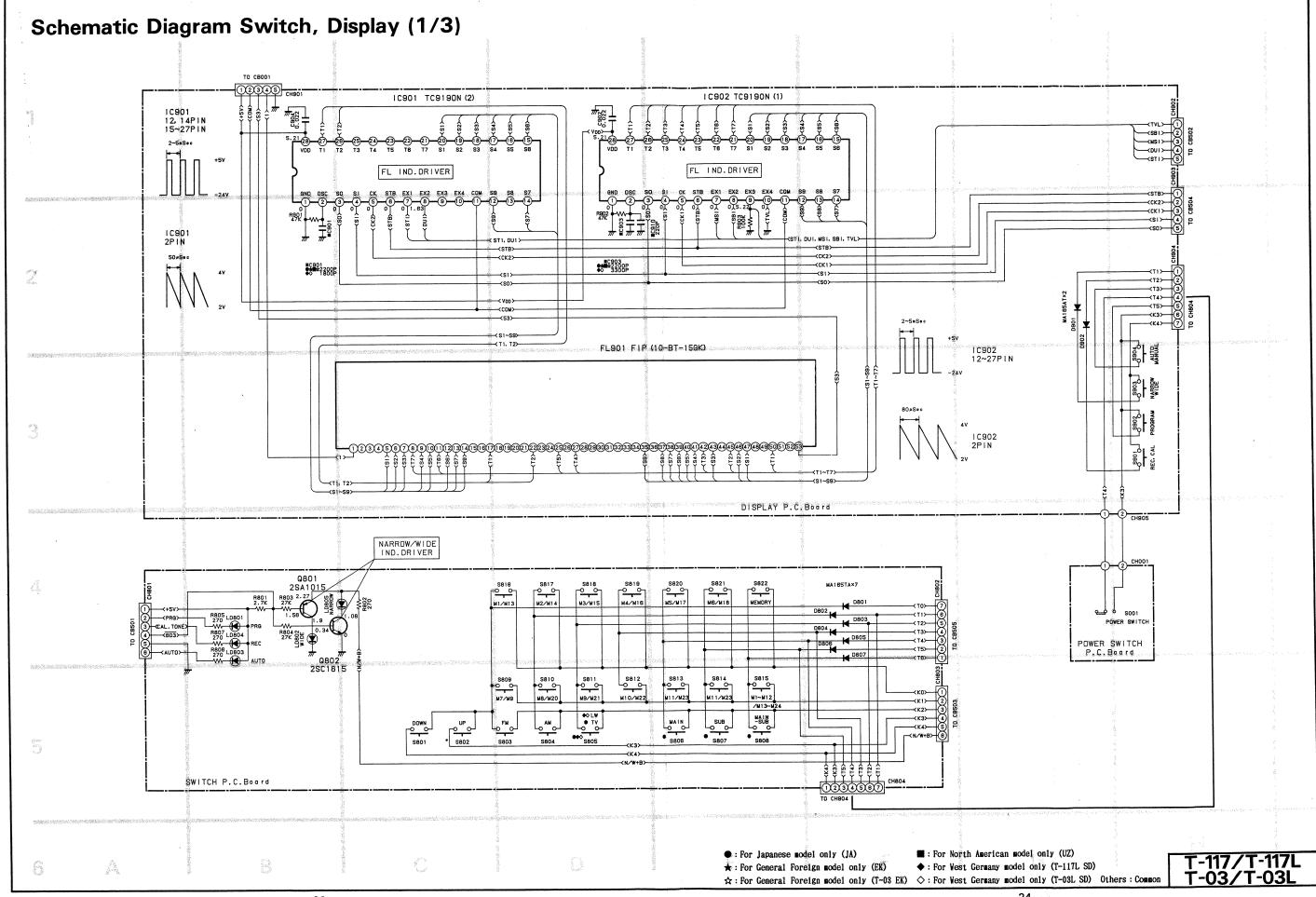


FM チューナー(JA Model only)



T-117/T-117L T-03/T-03L





#### Terminal Voltage

|       | iiiiai vo                  |                           |                                   |                         |                              |                        |                         |                         |                           |                          |                            |                             |                                |       |                                 |   |  | 1 8   | 1.9      | 2 0          |
|-------|----------------------------|---------------------------|-----------------------------------|-------------------------|------------------------------|------------------------|-------------------------|-------------------------|---------------------------|--------------------------|----------------------------|-----------------------------|--------------------------------|-------|---------------------------------|---|--|-------|----------|--------------|
|       | 1 ]                        | 2                         | 3                                 | 4                       | 5                            | 6                      | 7                       | 8                       | 9                         | 1 0                      | 11                         | 12                          | 1 3                            | 1 4   | 1.5                             | 1 6                                     | 17                                       | 18    | 1.9      | 20           |
| IC001 | 19.18V                     | OV                        | 12.02V                            |                         |                              |                        |                         |                         |                           |                          |                            |                             |                                |       |                                 |   |  |       |          | <del> </del> |
| IC101 | 8.177                      | 8.177                     | 0.33Y                             | OV                      | 1.09V                        | 2.717                  | 2.71V                   |                         |                           |                          |                            |                             |                                |       |                                 |   |  |       |          |              |
| IC102 | 8.18V                      | 8.18V                     | 0.32V                             | OV                      | 1.08V                        | 2.69V                  | 2.69V                   |                         |                           |                          |                            |                             |                                |       |                                 | 2 0511/01                               |  |       |          | ļ            |
| IC103 | 2.717                      | 2.71V                     | 0.44V                             | OY                      | OV                           | _                      | 5.66V                   | 5.62V                   | 5.63Y                     | 5.64V                    | 8.87V                      | 4.7V(Olnput)<br>OV(65Input) | 1.1V(01nput)<br>5.65V(651nput) | OV    | 4.94V(01nput)<br>0.04V(651nput) | 0.65V(01nput)<br>0.9V(651nput)          |  |       |          |              |
| IC104 | 1.38V                      | 1.38V                     | OV                                | 8.37¥                   | 8.89V                        |                        | _                       |                         |                           |                          |                            |                             |                                |       |                                 |   |  |       |          |              |
| IC201 | 8.84V                      | 5.83V                     | 0.48V(01 nput)<br>1.49V(651 nput) | 0.02Y                   | 2.28V                        | 5.917                  | 2.28V                   | 2.27V                   | QY                        | OY                       | 0.06V                      | 5.23V                       | 5.23V                          | 5.23Y | 5.28V                           | 2.87V                                   | 2.75V                                    | 2.84Y | 5.11V    |              |
| IC202 | _                          |                           | OV                                | 0.02Y                   | 0.03V                        | OV                     | OV                      | OV                      | 8.86V                     | 8.86Y                    | 8.86V                      | _                           | _                              |       |                                 | 8.86V                                   |  |       |          |              |
| IC203 | 1.96V                      | 1.977                     | 7.18V                             | OY                      | 7.85V                        | 1.96V                  | 1.977                   |                         |                           |                          |                            |                             |                                |       |                                 |   |  |       |          | ļ            |
| 1C204 | OV                         |                           | 2.49V                             | _                       | 1.84V                        | 0.01V                  | 1.96V                   | OY                      | OV                        | 1.17                     | 5.28V                      | _                           | -                              | _     | -                               | 5.28V                                   |  |       |          |              |
| IC801 | 5.54V                      | 2.15V                     | 2.72Y                             | VO                      | 5.68V                        | 2.06V                  | 7.72V                   | 7.72V                   | 2.787                     | 5.27V                    | 0.69Y                      | OV                          | 2.2V                           | 9.18V | 1.33V                           | 0.0V<br>(Oinput)<br>4.28V<br>(100input) | 1.82V<br>(Oinput)<br>2.98V<br>(100input) | 5.63V | 5.6¥     | 2.877        |
| IC404 | 4.84V                      | 4.84V                     | 4.84V                             | OV                      | 4.84V                        | 4.84V                  | 4.84Y                   | 9.72¥                   |                           |                          |                            |                             |                                |       |                                 |   |  |       |          |              |
| IC501 | 9.947                      | 1.39V                     | 1.38V                             | OV                      | 1.38V                        | 3.36V                  | 1.317                   | 26.52Y                  |                           |                          |                            |                             |                                |       |                                 |   |  |       |          |              |
| 1C502 | VO                         | OV                        | OV                                | VO                      | 5.18V                        | 0.21V                  | 0.59Y                   | OV                      | 3.84V                     | -                        | 2.02V                      | OV                          | 2.02V                          | 5.18V |                                 | OV                                      |  |       |          |              |
| IC503 | OV                         | 0.85V                     | 0.84V                             | 0.23V                   | OV                           | 0.75V                  | 0.74Y                   | 0.75Y                   | 0.02Y(U)<br>5.02Y(VL,VH)  | 0.02V(VH)<br>5.02V(VL.U) | 0.02V(VL)<br>5.02V(VH.U)   | OV                          | OV                             | OY    | OY                              | 5.18V                                   | :  |       |          | ·            |
| IC504 | 1.447                      | 0.02Y                     | 0.02Y                             | 0.024                   | 0.02Y                        | 5.18V                  | _                       | 9.43V                   | 0.04Y                     | 0.03Y                    | 0.06Y                      | 0.067                       | 0.06V                          | 2.43Y | 5.19V                           | 5.19V                                   |  | 1.38V | 07       | 1.417        |
| IC505 | OY                         | 3.85V                     | 0.02V                             | 0.02Y                   | 0.08Y                        | 0.03Y                  | 0.03Y                   | 5.18V                   | 4.19V                     | 4.61V                    | 4.42Y                      | OY                          | OY                             | OV    | 97                              | 5.19V                                   |  |       |          |              |
| IC506 | _                          |                           | 99                                | OV                      | OY                           | OV                     | OV                      | OV                      | 5.24Y                     | OY                       | OY                         | _                           | _                              |       |                                 | 5.19V                                   |  |       |          |              |
| IC601 | 0.02V (VL)<br>5.18V(etc.)  | 0.02V (VH)<br>5.18V(etc.) | 0.02V (U)<br>5.13V(etc.)          | 9.81V                   | OV                           | 8.28V (U)<br>0V (etc.) | 8.28V (VH)<br>0V (etc.) | 8.28V (VL)<br>0V (etc.) | 8.46V                     | -                        |                            |                             |                                |       |                                 |   |  |       |          |              |
| 10702 | 0.5V(PM ST)<br>6.02V(etc.) | 6.02V(FM ST)              | 0.52V(H+S)                        | 6.02V(M+S)<br>0V (etc.) | 4.12V(Manual)<br>0.33V(Auto) | 0.17V(Manual)          |                         | 6.02V(Sub)<br>0V (etc.) | 0.62V(Sub)<br>5.81V(etc.) | 6.02V(Main)<br>0V (etc.) | 0.62V(Main)<br>5.81V(etc.) | 6.07V(TV ST)<br>0V (etc.)   | 0.62V(TV ST)<br>6.07V(etc.)    | 6.08¥ |                                 | L                                       |  |       | <u> </u> |              |

|      |       |       |       |       |       |       |       |                   |       |                              |       |       |                           |     |       |       |       |       | 1.0   | 20    |
|------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|------------------------------|-------|-------|---------------------------|-----|-------|-------|-------|-------|-------|-------|
|      | T 1   | 2     | 3     | 1 4   | 5     | 6     | 1     | 8                 | 9     | 10                           | 11    | 1 2   | 1 3                       | 1 4 | 1 5   | 16    | 17    | 1.5   | 13    |       |
|      | 5.56V | 3.27V | 2.62V | 2.62V | 2.62V | 2.59V | 2.64V | 2.59V             | 2.63V | 3.63V(Manual)<br>0.4V (Auto) | 2.28V | 4.67V | 0.5V (ST)<br>5.95V (Mono) | YO  | 2.26V | 5.67V | 5.63V | 5.64V | 5.64V | 5.63V |
| 1C40 | 2 1   | 2 2   | 2 3   | 2 4   | 2 5   | 2 6   | 2 7   | 2 8               |       |                              |       |       |                           |     |       |       |       |       |       |       |
|      | 5.63Y | 5.65V | 5.61V | 5.61V | YO    | 0.38V | 5.64¥ | 9.9 <sup>2V</sup> |       |                              |       |       |                           |     |       |       |       |       |       |       |

|       |                         |       |       |       |       |       |       |     |       | ,     |       |                           |                            |                           |      |       | 17    | 1 10                       | 1.0                       | 2.0                          |
|-------|-------------------------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|---------------------------|----------------------------|---------------------------|------|-------|-------|----------------------------|---------------------------|------------------------------|
|       | 1                       | 9     | 1 2   | 4     | 5     | 6     | 1 7   | 1 2 | 19    | 1 10  | 1 11  | 1 12                      | 1. 13                      | 14 1                      | 15 ( | 10    | 1 1 1 | 1.0                        | 13                        | 20                           |
|       | 9.01V (TV)<br>0V (etc.) | 2.14V | 2.14V | 0.68V | 2.05V | 3.53V | 3.55V | _   | _     | 3.52V | 8.52V | 0.62V (ST)<br>6.07V(etc.) | 0.62V(Main)<br>5.81V(etc.) | 0.62V(Sub)<br>5.81V(etc.) | OV   | 2.39V |       | 0.42V(Main)<br>0.97V(etc.) | 0.42V(Sub)<br>0.97V(etc.) | 0.17V(Manual)<br>6.06V(Auto) |
| 10701 | 2 1                     | 2 2   | 2 3   | 2 4   | 2 5   | 2 6   | 2 7   | 2 8 | 2 9   | 3 0   |       |                           |                            |                           |      |       |       |                            |                           |                              |
| 1     | 9 05V                   | 9 06V | 3 06V | 2.33V | 2.33V | 3.45V | 2.01V | _   | 3.05V |       | 1     |                           |                            |                           |      |       |       |                            |                           |                              |

|       | 1     | 2   | 3     | 1     | 5     | 6     | 7     | 8     | 9    | 10    | 11    | 1 2  | 1 3   | 1 4   | 1.5 | 1 6   | 17  | 18    | 19    | 20    |
|-------|-------|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|-----|-------|-----|-------|-------|-------|
|       |       |     | -     | -     | _     | _     | _     | _     | _    | I -   | _     | -    | -     | -     | _   | _     | _   |       |       |       |
|       | 21    | 9 9 | 2.3   | 2.4   | 2.5   | 2.6   | 2 7   | 2.8   | 2 9  | 3 0   | 3 1   | 3 2  | 3 3   | 3 4   | 3 5 | 3 6   | 3 7 | 3 8   | 3 9   | 4 0   |
| 1C507 |       |     | 5.17V | 0.02Y | 0.02Y | 0.02Y | 0.02V | 0.3Ÿ  | 0.37 | 0.62Y | 0.03Y | 4.6Y | 4.6V  | 4.99V | OV  | 2.39V | OV  | 5.42Y | 5.02Y | 0.037 |
|       | 41    | 4 2 | 4.3   | 44    | 4.5   | 4 6   | 47    | 4 8   | 4 9  | 5 0   | 5 1   | 5 2  | 5 3   | 5 4   | 5 5 | 5.6   | 5 7 | 5.8   | 5 9   | 6.0   |
|       | 5.17V | OV  | OV    | OY    | OY    | 5.22V | 5.22V | 5.75V | OV   | 2.2V  | 1.78V | OV   | 5.22V | -     | -   | -     | _   | _     |       |       |

|       | 1  | 2  | 3                     | 4  | 5            | 6  | 7  | 8     | 9  | 10    |
|-------|----|----|-----------------------|----|--------------|----|----|-------|----|-------|
| PE101 | OV | 90 | 4V(0 IN)<br>0V(65 IN) | 04 | B.42V~20.78V | VO | OV | 9.837 | VO | 2.58V |

|       | 1 1 | 2         | 3 | 4                      | 5     | 6                      | 7           | 8                     |
|-------|-----|-----------|---|------------------------|-------|------------------------|-------------|-----------------------|
| PE601 | OV  | 9.81V(TV) |   | 8.28V(VL)<br>0V (etc.) | 6.82V | 8.28V(VH)<br>0V (etc.) | 2V~24V (Vf) | 8.28V(U)<br>0V (etc.) |

#### NOTES:

- 1. All resistance values are in ohms. K-1.000
- 2. All capacitance values are in microfarads. P= 1.000.000
- 3. All the diodes without indication are MA165TA.
- 4. When replacing varactor diodes, VD301~VD304 always use a diode with the same ranc.

Voltage Measuring Conditions

• Power Supply Voltage : AC 100V. 50/60Hz (JA model only)

AC 120V, 60Hz (UZ model only) AC 200V. 50Hz (EK. SD model only)
: Digital Multi Voltmeter

• Measuring Meter

· Measuring point reference : Between Ground

Measuring Conditions

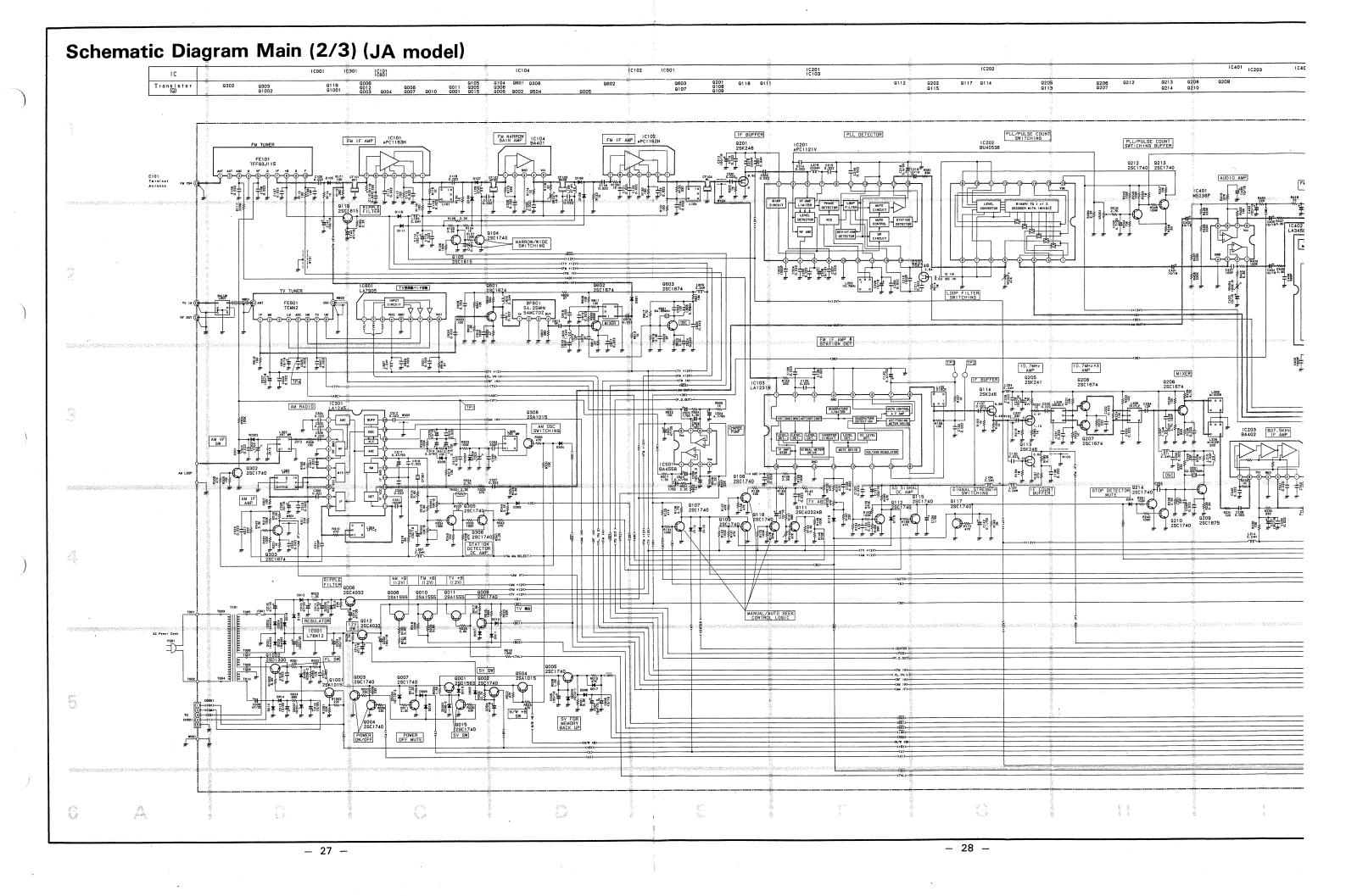
: No Signal
: No Signal
FM 84MHz
AM 1.008KHz (others)
1.000KHz (UZ model only)
TV 2ch

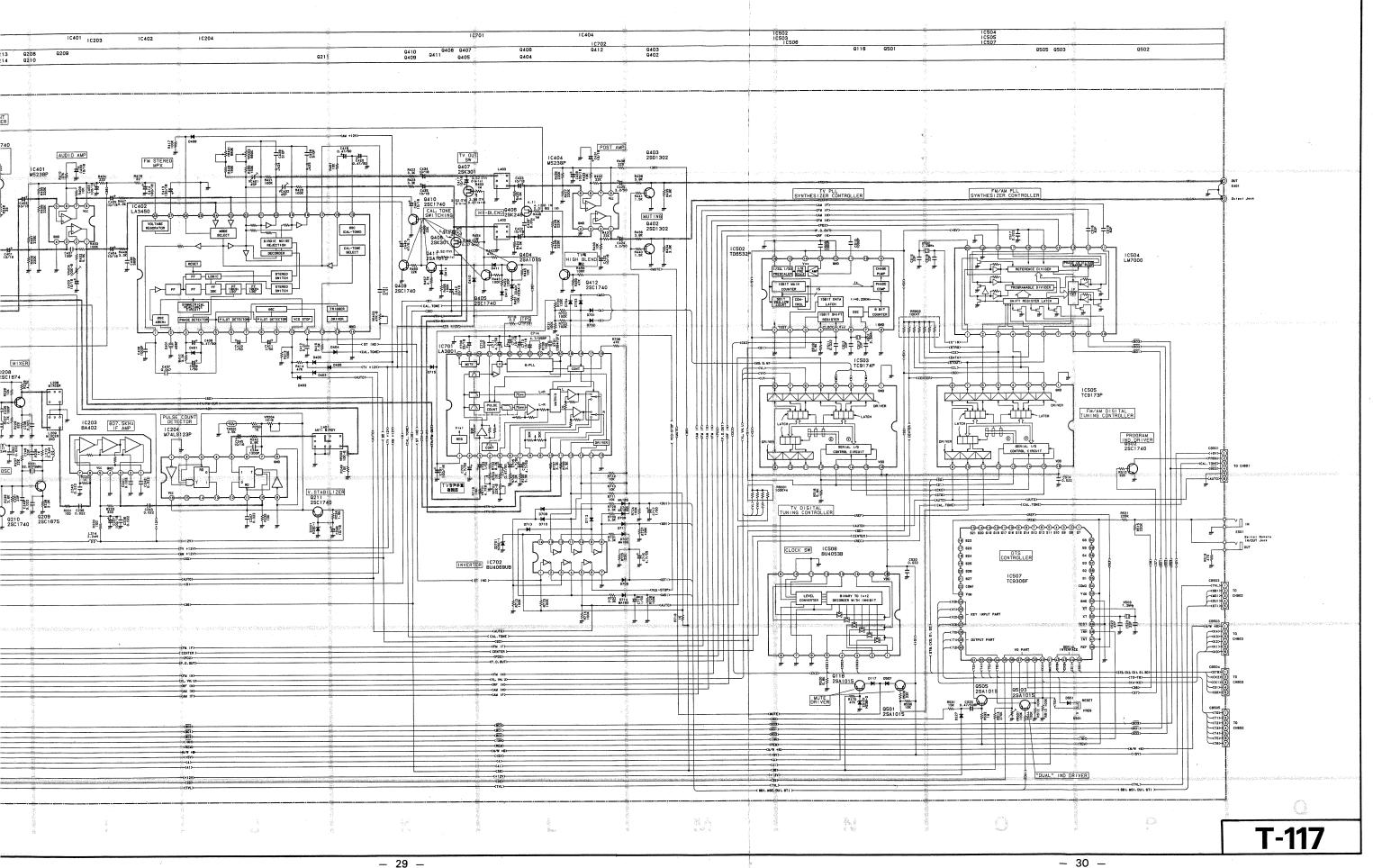
3 0 Input→ 0 dB  $\mu$  Input (No Signal) 65 Input→65dB  $\mu$  Input VL→VHF Low (1 ~ 3 cH)

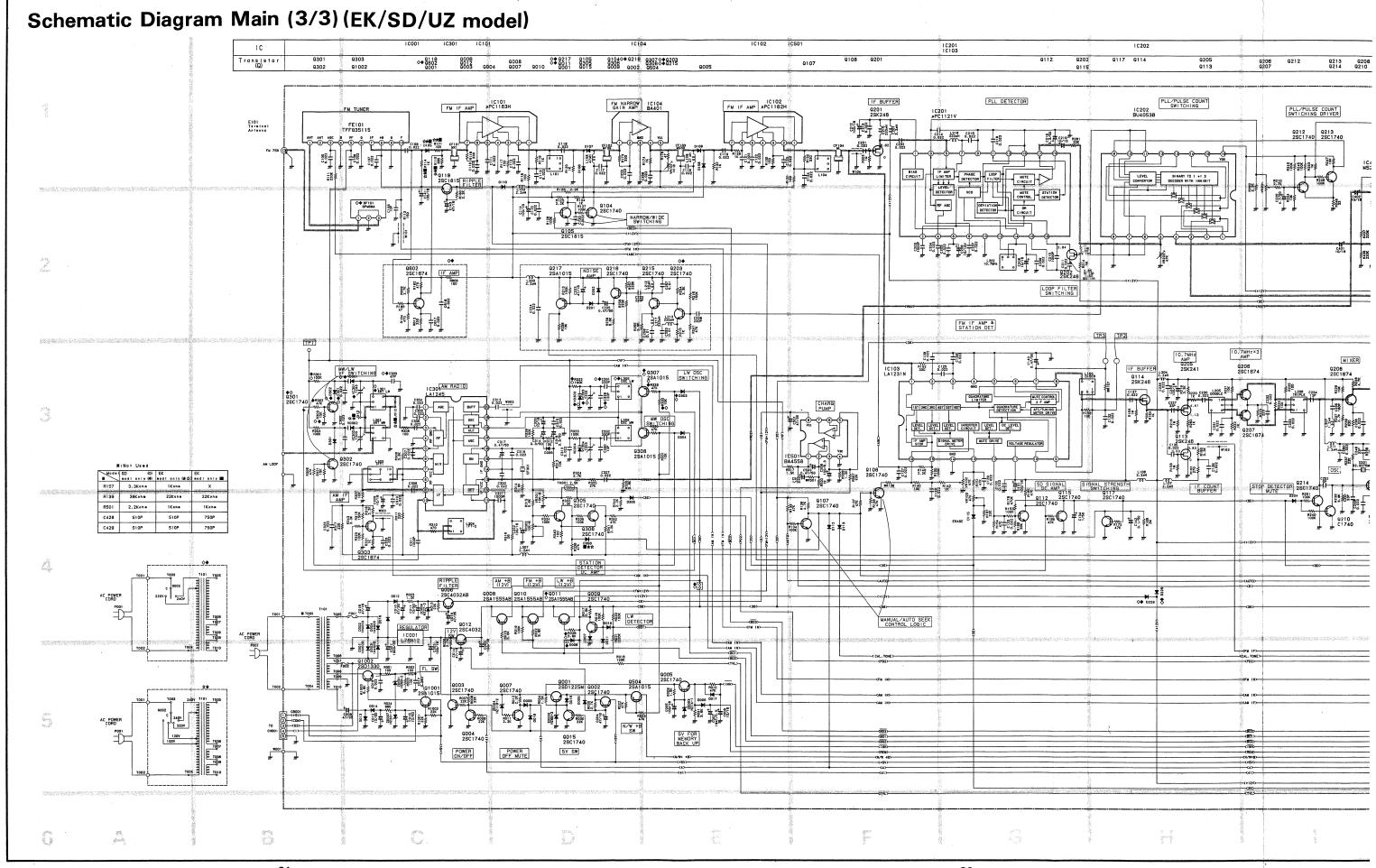
VH→VHF High (4~12cH)
U→UHF (13~62cH)
100 Input→ 100dB μ Input

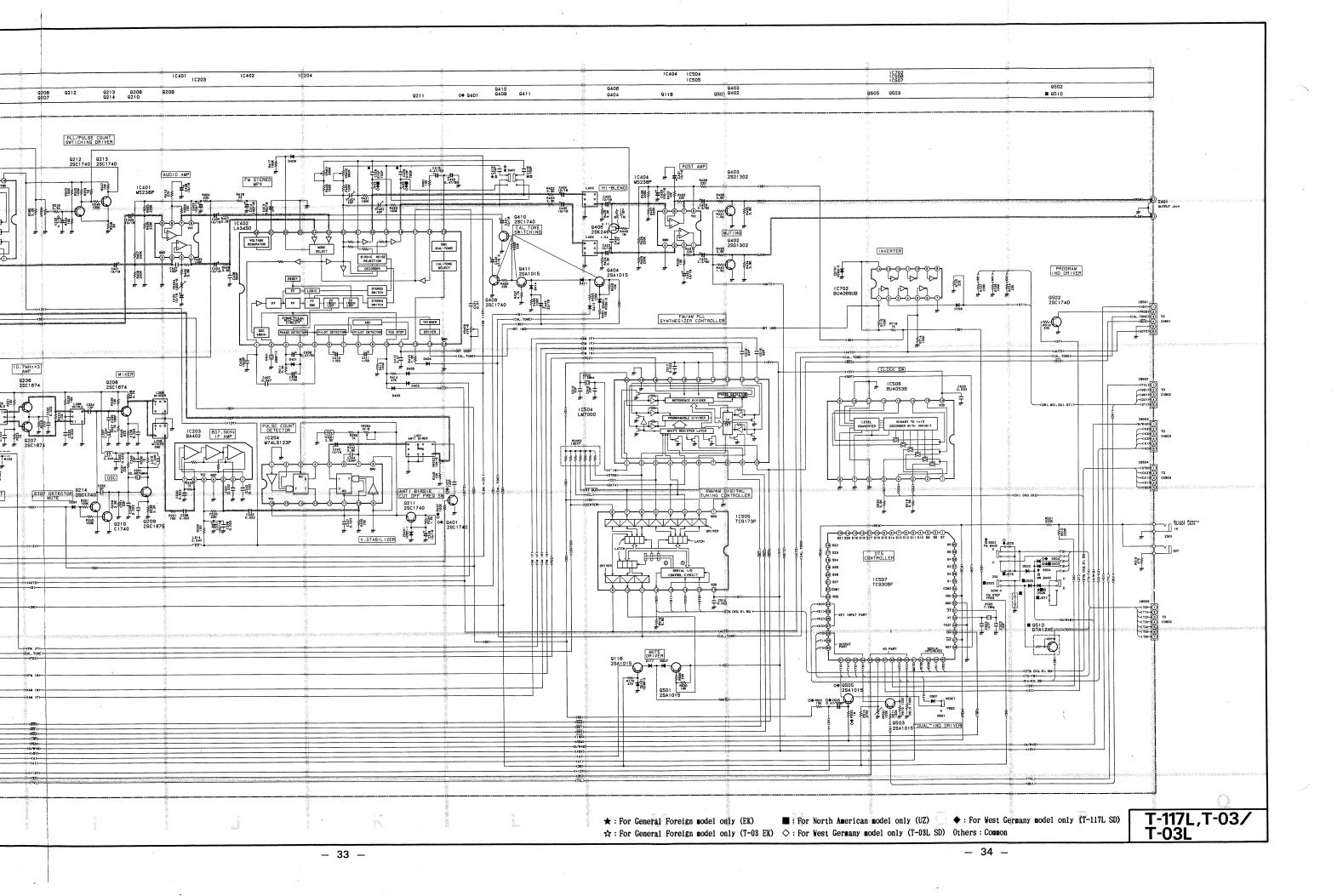
|       | E  | c  | В  |
|-------|--|--|--|
| Q1001 | 4.17¥  | 4.18V  | 3.47V  |
| Q1002 | 4.377  | 4.32V  | 3.68V  |
| Q001  | 5.21V  | 12.01V   | 5.75V  |
| Q002  | 4.479  | 5.21V  | 5.12V  |
| Q003  | OY   | 11.99V   | OV   |
| Q004  | OY   | 0.017  | 0.637  |
| Q005  | 5.85V  | 12.02V   | 6.47V  |
| Q006  | 26.52V   | 27.879   | 27.45V   |
| Q007  | OY   | 0.049  | 0.679  |
| Q008  | 10.64V   | 10.01V (AM)<br>0.76V(etc.)                       | 9.33V (AM)<br>10.51V(etc.)                       |
| Q009  | 0.31V  | 10.35V   | 0.767  |
| Q018  | 10.64V   | 9.83V (FM)<br>OV (etc.)                          | 9.09V (PM)<br>10.56V(etc.)                       |
| Q011  | 10.64V   | 9.81V (TV)<br>0.07V(etc.)                        | 10.56V(etc.)<br>9.03V (TV)<br>10.27V(etc.)       |
| Q012  | 10.63¥   | 12.02Y   | 11.99V   |
| Q015  | OV   | 5.75Y  | OY   |
| Q104  | OY   | 0.07V (W)<br>0.97V (N)                           | 0.62V (W)<br>0.05V (N)                           |
| Q105  | OY   | 2.19V (V)<br>0.05V (N)                           | 0.84V (W)<br>0.63V (N)                           |
| Q167  | OV   | 0.08V(Manual)<br>3.16V(Auto 0)<br>0.78V(Auto 65) | 0.66V(Manual )<br>0.31V(Auto)                    |
| Q108  | OY   | 0.9Y(Manual)<br>0Y (Auto 0)<br>0.9Y(Auto 65)     | 0.24Y(Manual)<br>0.62Y(Auto 0)<br>0.04Y(Auto 85) |
| Q109  | GV   | 0.08Y(Manual)<br>3.16Y(Auto 0)<br>0.78Y(Auto 65) | 0.54V (TV)<br>0.08V(etc.)                        |
| Q111  | 0V   | 3.85V(TV 65)<br>7.07V(TV 0)<br>0.04V(FM/AM)      | 1.26V(TV 65)<br>0.36V(etc.)                      |
| Q112  | OV   | 0.05V(01nput)<br>3.57V(85input)                  | 0.6Y (01nput)<br>0Y(651nput)                     |
| Q115  | OV   | 8.84V(01nput)<br>0.03V(851nput)                  | 0.038V01mput)<br>0.63V(651mput)                  |
| Q118  | 0.03V(Manual)<br>2.49V(Auto 0)<br>0.03V(Auto 65) | 0.03V(Manual)<br>2.42V(Auto 0)<br>0.03V(Auto 85) | 1.76V  |
| Q117  | OY   | 0V (01nput)<br>2.17V(651sput)                    | 0.62V(01nput)<br>0.03V(651nput)                  |
| Q118  | OV   | 0.01Y  | 0.62V (TV)<br>0.02V(etc.)                        |
| Q119  | 8.76Y  | 9.87V  | 9.49V  |
| Q208  | 1.27V  | 4.82V  | 1.917  |
| Q206  | 0.18Y  | 8.81V  | 0.85V  |
| Q207  | 0.18V  | 8.81V  | 0.85Y  |
| Q208  | 0V (01nput)<br>1.18V(651nput)                    | 8.89V(01nput)<br>2.06V(651nput)                  | 0.06Y(01nput)<br>1.83Y(651nput)                  |
| Q209  | OV (Olnput)<br>0.57V(65input)                    | 8.89V  | 0.04V(01nput)<br>1.17V(651nput)                  |
|       |  |  |  |

|                            | E                            | C<br>0.06V(0 nput)                       | B<br>0.61V(Oinput)                   |
|----------------------------|------------------------------|--|--------------------------------------|
| Q210                       | θV                           | 1.17V(651 nput)                          | 0.16V(651 nput)                      |
| Q211                       | 5:28V                        | 8.86V                                    | 5.97V                                |
| Q212                       | 0.03V(Olnput)<br>OV(65Input) | 4.47V(0 nput)<br>0.01V(65 nput)          | 0.43V(01nput)<br>0.61V(651nput)      |
| 0213                       | 0.03V(01nput)                | 0.08V(0 nput)                            | 0.65V(0input)<br>0.01V(65input)      |
|                            | OV (65Input)                 | 8.87V(65input)<br>0:04V(0input)          | 0.61V(Olnput)                        |
| Q214                       |                              | 1.83V(65!nput)                           | 0.16V(65  nput)                      |
| Q215                       | 4.21V                        | 8.87V                                    | 4.82V                                |
| Q218                       | 3.56V                        | 8.89V                                    | 4.117                                |
| Q217 `                     | 8.89V                        | 8.84V                                    | 8.24V                                |
| Q301                       | ov                           | 0.01V (NW)<br>1.26V~<br>5.91V(LW)        | 0.84V (NW)<br>0.34V (LW)             |
| Q302                       | ov                           | 1.17V~<br>8.74V(MW)<br>0.01V(LW)         | 0.02V (NW)<br>0.64V (LW)             |
| Q303                       | 1.76V                        | 5.72V                                    | 2.52V                                |
| Q305                       | 0.45V (01nput)               | 7.04V (Olnput)<br>0.07V(100lnput)        | 0.02V (01nput)<br>0.64V(1001nput     |
| Q306                       | 0.45V (01 nput)              | 0.56V (Olaput)                           | 1.14V (0input)                       |
| -                          | 5.63V                        | 9.84V(1001nput)<br>5.59V                 | 8.28V(NV)                            |
| Q307                       |                              |  | 4.97V(LW)<br>4.98V(NW)               |
| Q308                       | 5.63V                        | 5.59V                                    | 8.32V(LW)                            |
| Q401                       | OV                           | OV                                       | 0.51V<br>0.68V(Nute)                 |
| Q402                       | OV                           | OV                                       | OV (etc.)                            |
| Q403                       | OV                           | OV                                       | 0.68V(Mute)<br>0V 0                  |
| Q404                       | 10.61V                       | 9.54V(Cal)<br>0.03V(etc.)                | 9.93V(Cal)<br>10.67V(etc.)           |
| Q405                       | OV                           | 9.27V (TV)<br>0.01V (Cal)<br>0.09V(etc.) | 0.62V (Cal<br>0.03V(etc.             |
| Q409                       | OY                           | OV                                       | 0.67V (TV)<br>0V (etc.               |
| Q410                       | OV                           | OV                                       | 0V (etc.)<br>0.67V (TV)<br>0V (etc.) |
| Q411                       | 9.11V (TV)                   | 9.1V (TV)                                | 8.37V (TV)                           |
|                            | 0.05V(etc.)                  | 0V (etc.)<br>0.01V(DUAL)                 | OV (etc.<br>0.82V(DUAL               |
| Q412                       | OV                           | 4.23V(etc.)                              | 0.21V(etc.                           |
| Q501                       | 5.19V                        | 0.277                                    | 4.67                                 |
| Q502                       | OY                           | 3.2V                                     | OV                                   |
| Q503                       | 5.01V                        | 5.08V                                    | 4.517                                |
| Q504                       | 4.41V                        | 4.14V(FM/TV)<br>0.02V(etc.)              | 8.54V(PM/TV)<br>7.04V(etc.)          |
| Q601                       | 0.497                        | 9.57                                     | 1.26V                                |
| Q602<br>(SD model<br>only) | 0.517                        | 7.76V                                    | 1.25V                                |
| Q802<br>(JA model          | 0.02V                        | 9.587                                    | 0.767                                |
| only)                      |                              |  |                                      |



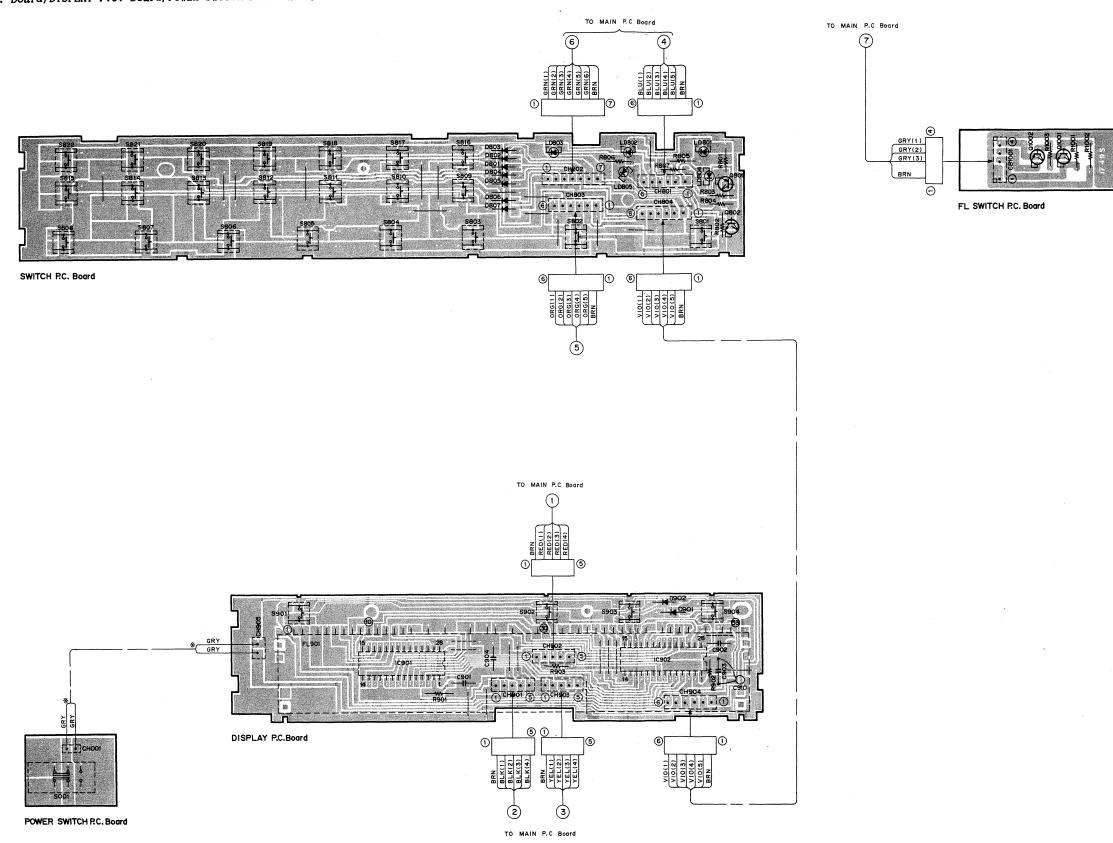




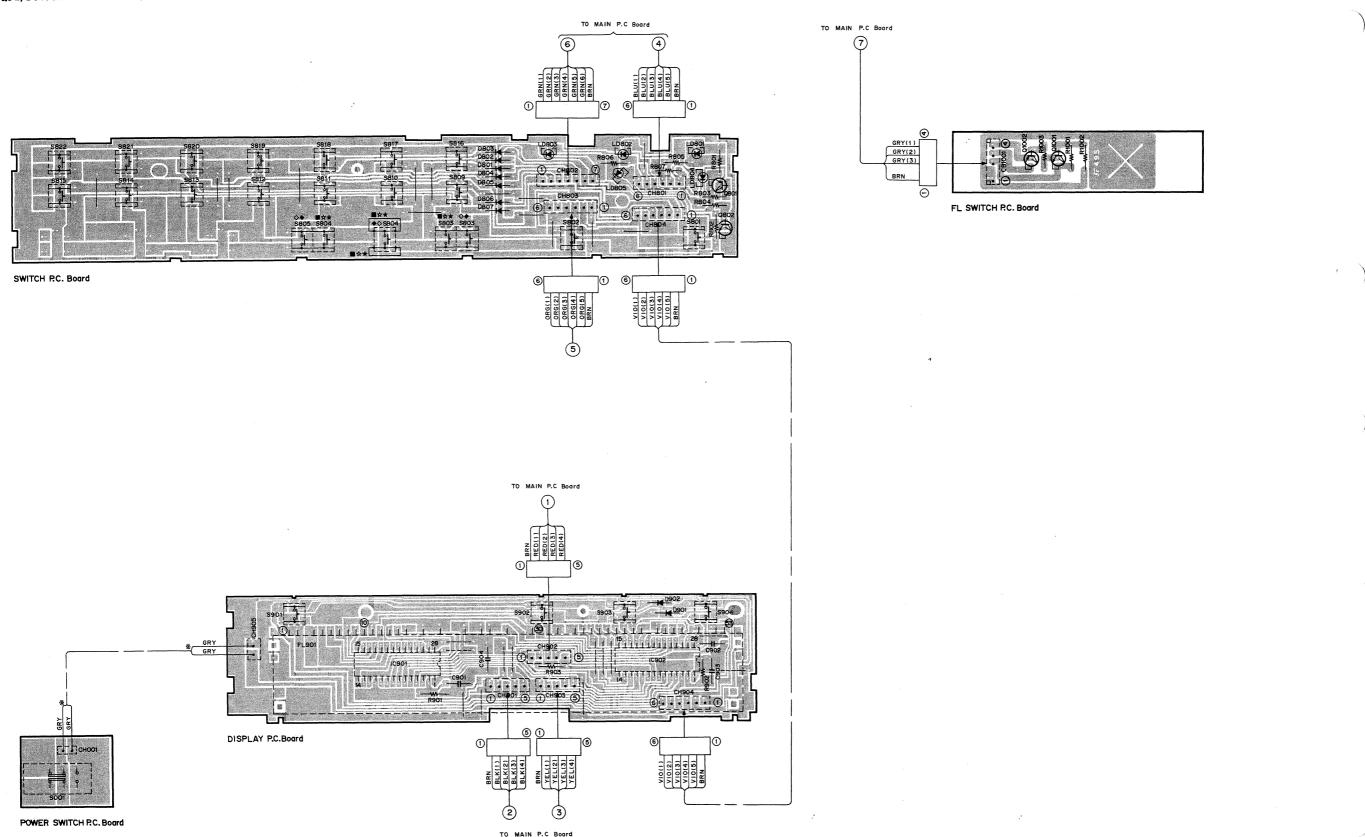


## Parts Lagout on P.C. Boards and Wiring Diagram

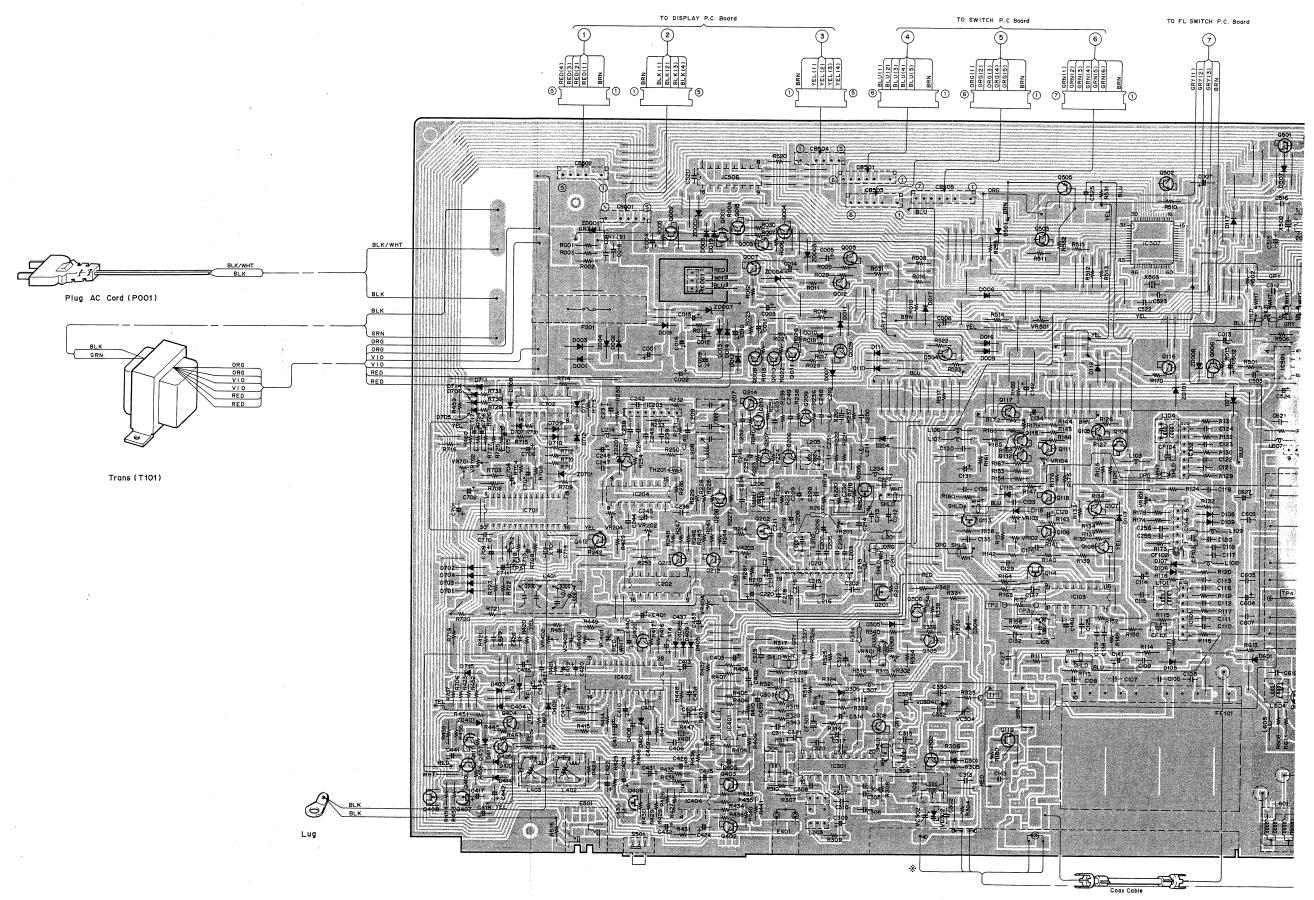
SWITCH P.C. Board/DISPLAY P.C. Board/POWER SWITCH P.C.Board /FL SWITCH P.C.Board (JA Model only)

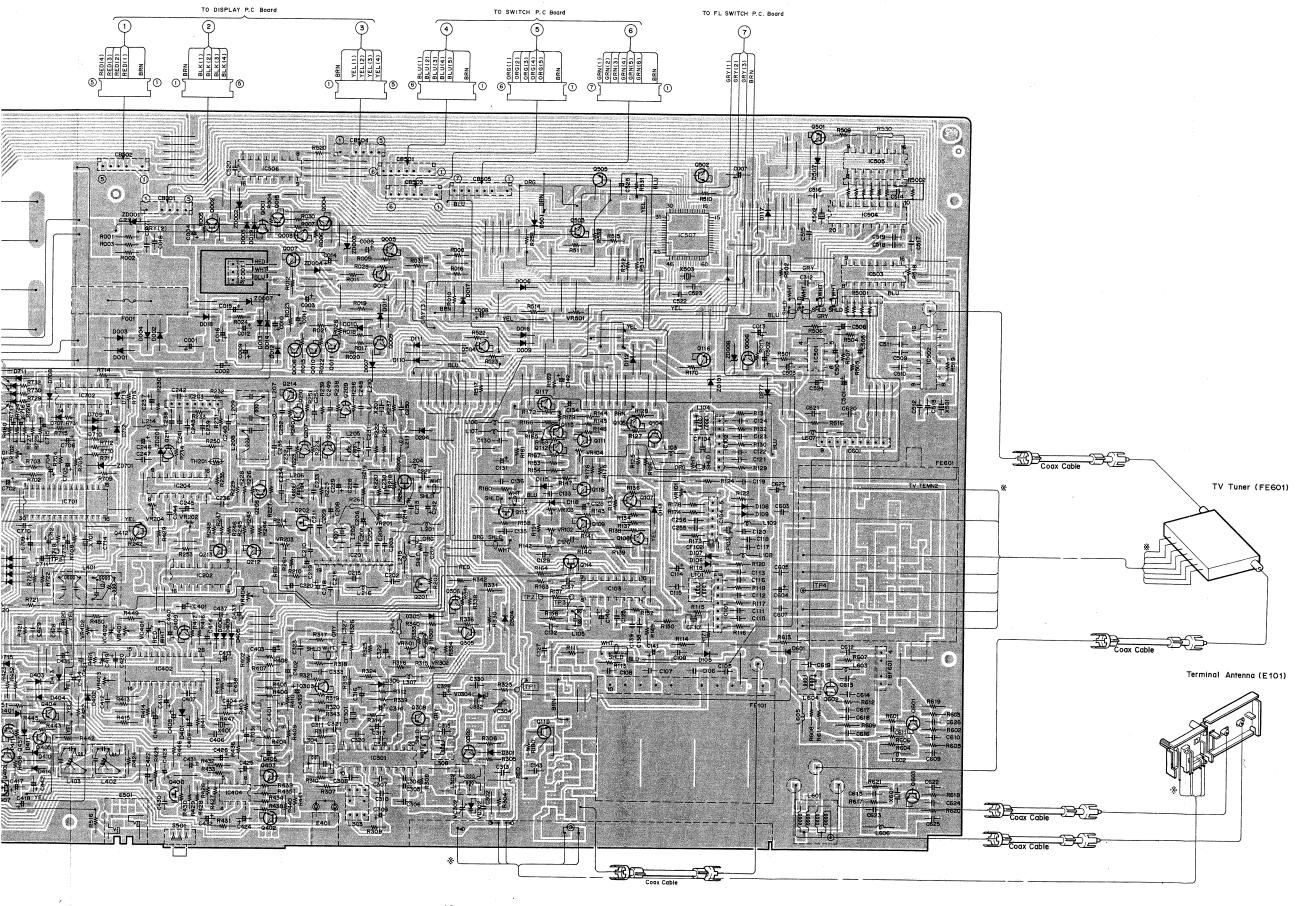


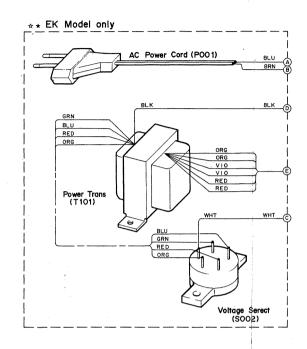
SWITCH P.C. Board/DISPLAY P.C. Board/POWER SWITCH P.C.Board /FL SWITCH P.C.Board (EK/SD/UZ Model only)

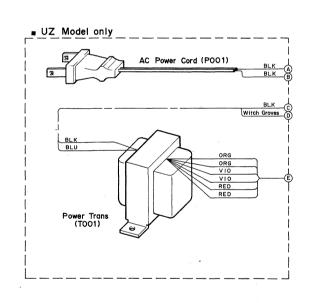


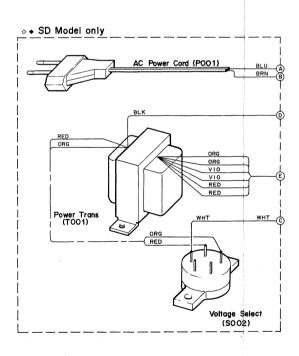
MAIN P.C. Board (JA Model only)

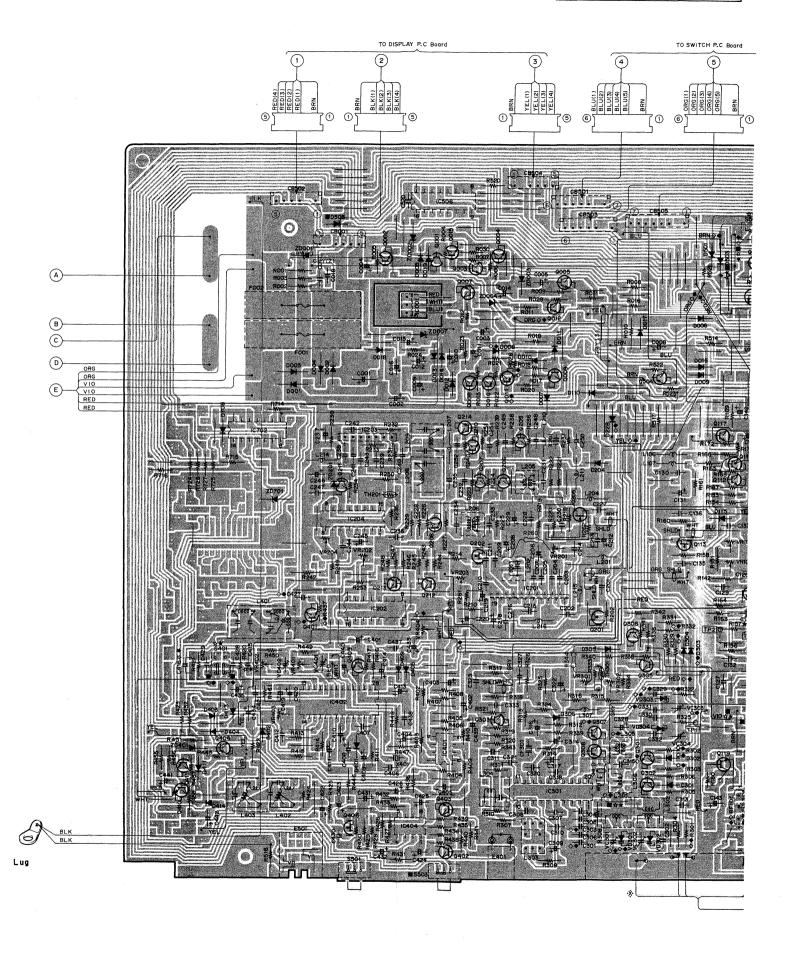


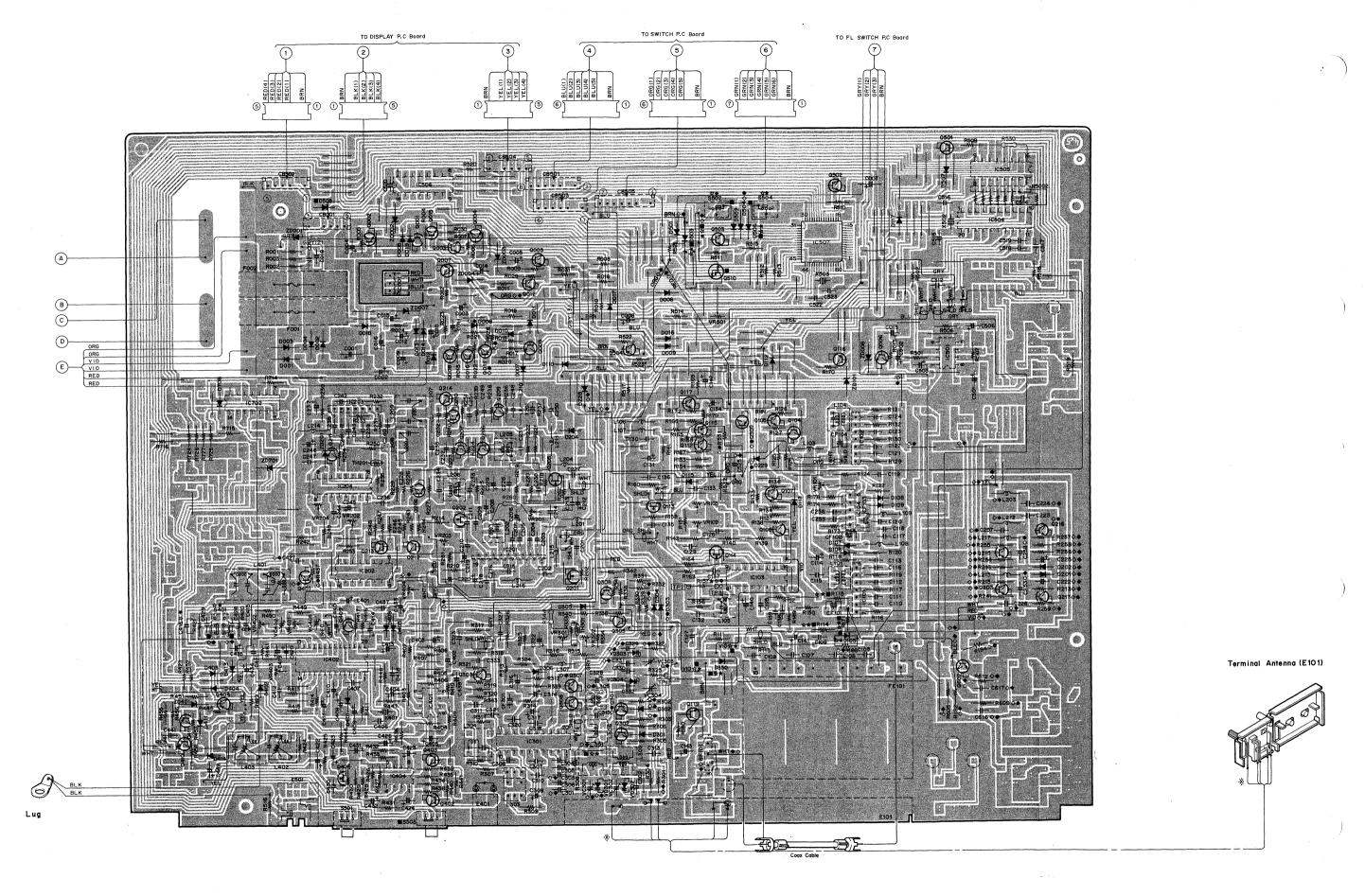












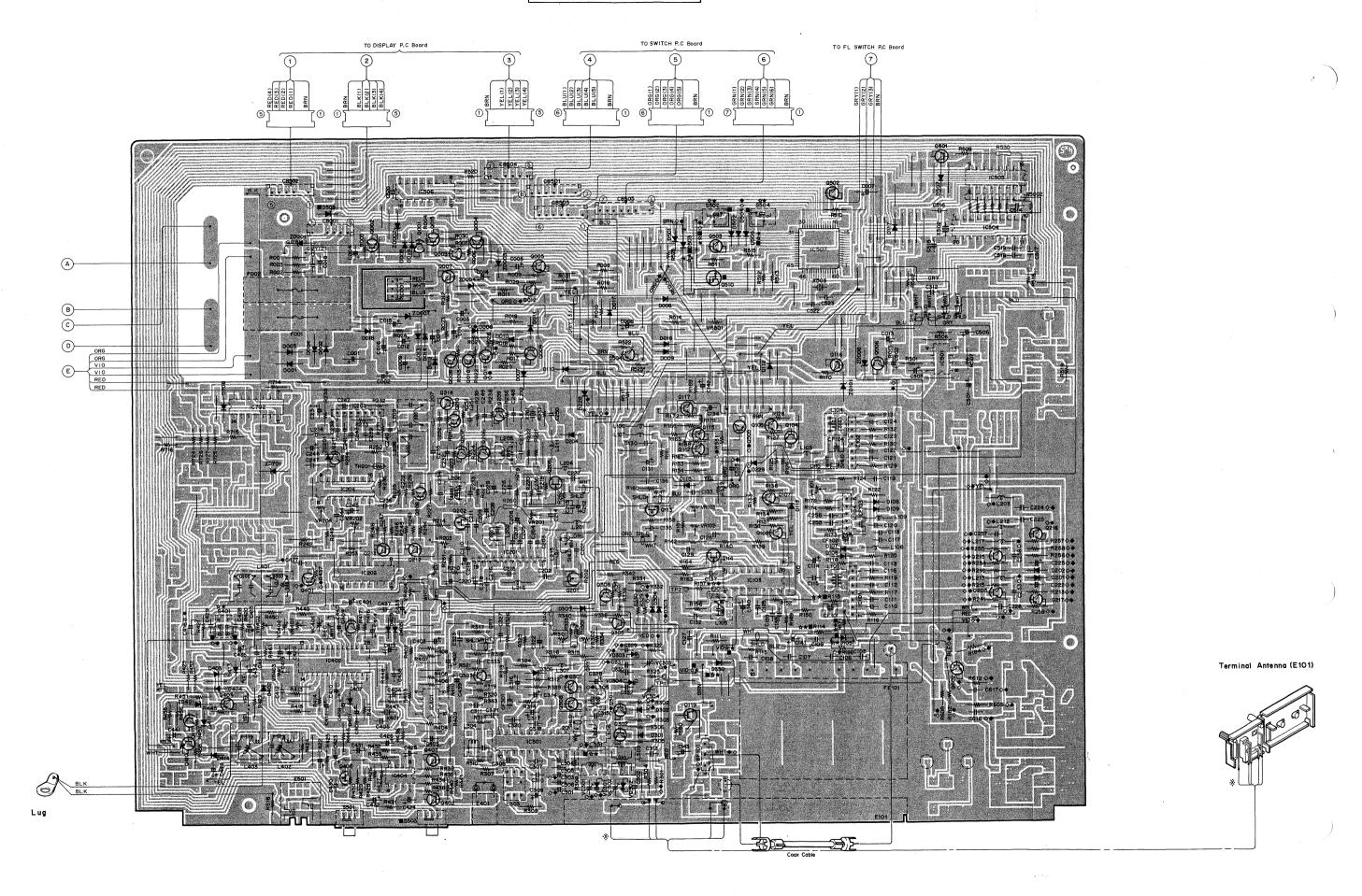
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- 43 -

ige Serect (SOO2)

P

ige Select SOO2)



**– 44 –** 

ige Select SOO2)

### **Electrical Parts List**

Resistor: Carbon resistors undor 1/4 watts are not mentioned in the parts list. please confirm them by schematic diagram. μF-microfarads, pF-picofarads

|          |          |                |                                 |   |              |               | malerolarads, | pr-preorarads |   |        |
|----------|----------|----------------|---------------------------------|---|--------------|---------------|---------------|---------------|---|--------|
|          |          |                | Abbreviations                   |   | 1            | Symbol<br>No. | Part No.      | Description   |   | ]      |
|          |          | RES.=Resistor  | PP.=Polypropylene               |   | <u> </u>     | Q004          | 48T81103F01   | 2SC1740       |   | $\neg$ |
|          |          |                |                                 |   |              | or            | 48T81101F01   | 2SC1815       |   |        |
| 1        |          | CERCeramic     | MYL.=Mylar<br>ELY.=Electrolytic |   | 1            | Q005          | 48T81103F01   | 2SC1740       |   |        |
|          |          | CAP. =Capcitor |                                 |   |              | 1 '           | 48T81101F01   | 2SC1815       |   | - 1    |
|          |          | TRTransist     | oR POLY.=Polystrol              |   |              | or            | 1             | i             | - |        |
| <u> </u> |          |                |                                 |   | 1            | Q006          | 48T82761F01   | 2SC4032AB     | ľ |        |
| s        | ymbol    | Part No.       | Description.                    |   |              |               | 10m01100D01   | 0001740       | - | -      |
|          | No.      |                |                                 |   |              | Q007          | 48T81103F01   | 2SC1740       | 1 |        |
|          |          | ×              | ain P.C. Board                  |   |              | or            | 48T81101F01   | 2SC1815       |   |        |
|          |          | •              |                                 |   |              | Q008          | 48T82910F01   | 2SA1555AB     |   |        |
| I        | C's      |                |                                 |   | 1            | Q009          | 48T81103F01   | 2SC1740       |   |        |
|          | 1C001    | 51T56583F07    | L78N12                          |   |              | or            | 48T81101F01   | 2SC1815       |   |        |
|          | 1C101    | 51T84601F01    | μPC1163H                        |   |              | 1             |               |               |   |        |
| 1        | IC102    | 51T84601F01    | μPC1163H                        |   |              | Q010          | 48T82910F01   | 2SA1555AB     |   |        |
| 1        | 1C103    | 51T50855F01    | LA1231N                         |   | •            | Q011          | 48T82910F01   | 2SA1555AB     |   |        |
|          | IC104    | 51T72216F01    | BA401                           | - | •            | Q011          | 48T82910F01   | 2SA1555AB     |   |        |
|          | 1        |                |                                 |   | \$           | Q011          | 48T82910F01   | 2SA1555AB     |   |        |
|          | 1C201    | 51T84606F01    | μPC1211V                        |   |              | Q012          | 48T82761F01   | 2SC4032AB     |   | ı      |
|          | 1C202    | 51T69181F01    | BU4053B                         | 1 | П            |               |               |               |   | 1      |
|          | 1C203    | 51T62863F01    | BA402                           |   | H            | Q015          | 48T81103F01   | 2SC1740       |   | i      |
|          | 1C204    | 51T56534F01    | M74LS123P                       |   |              | or            | 48T81101F01   | 2SC1815       |   |        |
|          | 1C301    | 51T53323F01    | LA1245                          |   | П            | Q104          | 48T81103F01   | 2SC1740       |   |        |
| ļ        | 10001    | 01100020171    | [                               |   |              | Q105          | 48T81103F01   | 2SC1740       | • |        |
| 1        | 1C401    | 51T80136F01    | M5238P                          |   |              | Q107          | 48T81103F01   | 2SC1740       |   |        |
|          | 1C402    | 51T84610F01    | LA3450                          |   |              |               |               |               |   |        |
| 1        | 1C404    | 51T80136F01    | M5238P                          |   |              | Q108          | 48T81103F01   | 2SC1740       |   |        |
|          |          | 51T65380F01    | BA4558                          |   | ╽╽●          | Q109          | 48T81103F01   | 2SC1740       |   | 1      |
|          | IC501    |                | TD6352P                         |   | •            | or            | 48T81101F01   | 2SC1815       |   |        |
| •        | 1C502    | 51T84659F01    | 100302F                         |   |              | Q111          | 48T82761F01   | 2SC4032AB     |   |        |
| 1        |          | 54m0 405m001   | 700174D                         |   |              | Q112          | 48T81103F01   | 2SC1740       |   | ļ      |
| •        | 1C503    | 51T84657F01    | TC9174P                         |   | П            | 1             | 48T81101F01   | 2SC1815       |   | ĺ      |
| 1        | 1C504    | 51T84660F01    | LM7000                          |   | Н            | or            | 40101101101   | 2501010       |   |        |
|          | 1C505    | 51T84658F01    | TC9173P                         |   |              | 10110         | 48T66948F01   | FET: 2SK246   |   |        |
| 1        | 1C506    | 51T69181F01    | BU4053B                         |   |              | Q113          |               | FET. 2SK246   |   |        |
| 1        | 10507    | 51T92066F01    | TC9306F                         |   | Ш            | Q114          | 48T66948F01   | 2SC1740       |   |        |
| 1        |          |                |                                 |   |              | Q115          | 48T81103F01   | 1             |   |        |
| •        | 10601    | 51T84594F01    | LA7905                          |   | Н            | or            | 48T81101F01   | 2SC1815       |   |        |
| •        | IC701    | 51T84611F01    | LA3801                          |   |              | Q116          | 48T81102F01   | 2SA1015       |   |        |
|          | 1C702    | 51T68998F01    | BU4069UB                        |   | Ш            | or            | 48T81104F01   | 2SA933A       |   |        |
|          | ŀ        |                |                                 |   |              | 0.45          | 40001100001   | 0001740       |   |        |
| -        |          |                | · .                             |   | Ш            | Q117          | 48T81103F01   | 2SC1740       |   | 1      |
|          |          |                |                                 |   | $H_{L}$      | or            | 48T81101F01   | 2SC1815       |   |        |
|          |          |                |                                 |   | •            | Q118          | 48T81103F01   | 2SC1740       |   |        |
|          | Transist | ors            |                                 |   | <b>∤</b>   ● | or            | 48T81101F01   | 2SC1815       |   |        |
| •        | Q001     | 48T90204F03    | 2SD1563                         |   |              | Q119          | 48T81101F01   | 2SC1815       |   | }      |
|          | Q001     | 48T63085F01    | 2SD1225M                        |   |              |               |               |               | - |        |
| *        | Q001     | 48T63085F01    | 2SD1225M                        |   |              | Q201          | 48T66948F01   | FET, 2SK246   |   |        |
| •        | Q001     | 48T63085F01    | 2SD1225M                        |   |              | Q202          | 48T86948F01   | FET, 2SK246   |   |        |
| 0        | Q001     | 48T63085F01    | 2SD1225M                        |   |              | 1 "           | 48T81103F01   | 2SC1740       |   |        |
|          |          |                |                                 |   | ≎            | 1             | 48T81101F01   | 2SC1815       |   |        |
| 12       | Q001     | 48T63085F01    | 2SD1225M                        |   | ◆            | Q203          | 48T81103F01   | 2SC1740       |   |        |
|          | Q002     | 48T81103F01    | 2SC1740                         |   | •            | or            | 48T81101F01   | 2SC1815       |   |        |
|          | or       | 48T81101F01    | 2SC1815                         |   |              |               |               |               |   |        |
| -        | Q003     | 48T81103F01    | 2SC1740                         |   |              | Q205          | 48T63926F03   | 2SK241        |   |        |
| -        | or       | 48T81101F01    | 2SC1815                         |   |              | Q206          | 48S40732P02   | 2SC1674       |   |        |
|          | 1        |                |                                 |   |              | Q207          | 48S40732P02   | 2SC1674       |   |        |
|          |          |                |                                 |   |              | Q208          | 48S40732P02   | 2SC1674       |   |        |
|          |          |                |                                 |   |              | Q209          | 48S44580J03   | 2SC1675       |   |        |
| - 1      | 1        | 1              |                                 |   |              | 1             |               |               |   |        |

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

★: For General Foreign model only (EK)

lackloss: For West Germany model only (T-117L SD)

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

| ○ or         48781101F01         2SC1740         Q411         48781102F01         2SA333A           ○ Q215         48781103F01         2SC1740         Q412         48781103F01         2SC1740           ○ Q216         48781103F01         2SC1740         Or         48781103F01         2SC1815           ○ Q216         48781103F01         2SC1740         Or         48781103F01         2SC1815           ○ Q216         48781103F01         2SC1740         Or         48781103F01         2SA333A           ○ Q217         48781102F01         2SA1015         Or         48781103F01         2SC1740           ○ Q17         48781102F01         2SA1015         Or         48781103F01         2SC1740           ○ Q17         48781102F01         2SA1015         Or         48781103F01         2SC1815           ○ Q17         48781103F01         2SA1015         Or         48781103F01         2SC1815           ○ Q301         48781103F01         2SC1815         Or         48781103F01         2SC1815           ○ Q301         48781103F01         2SC1815         Or         48781103F01         2SA1015           ○ Q301         48781103F01         2SC1815         Or         48781103F01         2SA1015  |        | scription | Description | Part No.    | /mbol<br>No. | S  |
|---|--------|-----------|-------------|-------------|--------------|----|
| Cord   ATTAILORPOI   SENITAD   SENITAD   CORD   ATTAILORPOI   SENITAD   CORD   | $\top$ |           | 2SD1302     | 48T57305F01 |              |    |
| C211   48781108P01   2821740   C212   48781101P01   2821815   C213   4838101P01   2821815   C213   |        |           | 2SA1015     | 48T81102F01 | Q404         |    |
| Q212   43781108P01   2821815   Q405   43781108P01   2821815   Q405   43781108P01   2821815   Q406   43781101P01   2821815   Q407   43781101P01   2821815   Q407   43781101P01   2821815   Q408   43782122P02   PET. 282801   Q409   43781101P01   2821815   Q409   43781108P01   2821815   Q409   4378108P01   2821815   Q409   4378108P01   2821815   Q409   4378108P01   282181   |        |           | 2SA933A     | 48T81104F01 | or           |    |
| Q212   43781108P01   2801740   Q406   Q406   Q407   Q40   |        |           | (           |             |              | •  |
| Q213  |        |           | 1           |             | •            |    |
| Q218   48781108P01   25C1740   Q407   48781101P01   25C1815   Q408   48781212P02   PET. 258301   PET. 258301   Q408   48781101P01   25C1815   Q408   48781212P02   PET. 258301   Q408   48781101P01   25C1815   Q409   48781101P01   25C1815   Q410   48781101P01   25C1815   Q410   48781101P01   25C1815   Q410   48781101P01   25C1815   Q410   48781101P01   25C1815   Q411   48781101P01   25C1815   Q501   48781101P01   25C1815   Q502   |        |           | 2001010     | 40101101101 | 01           |    |
| Q213         48T81108F01<br>or<br>48T81108F01<br>or<br>48T81108F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81101F01<br>or<br>48T81 |        | 10        | DDT GOVGAG  | AOTERNAODA1 | 0400         |    |
| Or   48781101F01   201815   201740   201815   201740   201815   201740   201815   201740   201815   201740   201815   |        |           |             |             | -            |    |
| Q214         48781108F01         2051740         Q409         4878109F01         2051815         Q410         48781109F01         2851740         Q410         48781109F01         2851815         Q411         48781109F01         2851815         Q501         48781109F01         2851815         Q502         48781109F01         2851815         Q503         48781109F01         2851815         Q503         48781109F01         2851815         Q503         48781109F01         2851815         Q503         48781109F01   | 1      |           |             | i           |              | •  |
| ○ Q215         487811018P01         2821815         Q410         487811018P01         2821740           ○ Q215         487811018P01         2821815         Q410         487811018P01         2821815           ○ Q215         487811018P01         2821815         Q411         48781101P01         2821815           ○ Q216         48781101P01         2821815         Q412         48781101P01         2821740           ○ Q216         48781101P01         2821815         Q412         48781101P01         2821815           ○ Q216         48781101P01         2821815         Q502         48781101P01         2821815           ○ Q216         48781101P01         2821815         Q502         48781101P01         2821815           ○ Q217         48781101P01         2821815         Q502         48781101P01         2821815           ○ Q217         48781104P01         283938A         Q503         48781104P01         283938A           ○ Q301         48781104P01         2831015         Q504         48781104P01         283938A           ○ Q301         48781104P01         2831015         Q505         48781104P01         283938A           ○ Q301         48781104P01         2831015         Q505         48781104P01 <td></td> <td>·L</td> <td>1</td> <td>1</td> <td>-</td> <td>•</td>  |        | ·L        | 1           | 1           | -            | •  |
| Q 215         48781108F01   28C1815         28C1740         or 48781101F01   28C1815         Q411   48781102F01   28C1815         Q412   48781102F01   28C1815         Q502   48781102F01   28C1815         Q503   4878102F01   28C1815         Q503   4   |        |           | 1           | 1           | -            |    |
| ○ or         48781101P01         282154         48781103P01         2821740         0         48781103P01         2821815         0         48781103P01         2821815         0         0         0         48781103P01         2821815         0         0         48781103P01         2821815         0         0         0         48781103P01         2821815         0         0         48781103P01         2821815         0         0         0         48781103P01         2821815         0         0         0         0         0         48781103P01         2821815         0 </td <td></td> <td>1</td> <td></td> <td>48T81103F01</td> <td>Q410</td> <td></td>  |        | 1         |             | 48T81103F01 | Q410         |    |
| ↓ Q215         48T81108F01         28C1740         ↓ Q216         ↓ Q216         ↓ Q218  |        |           | 2SC1815     | 48T81101F01 | or           |    |
| Q215         48781108P01         2SC1740         Q216         48781108P01         2SC1815         Q412         48781104P01         2SA333A           Q216         48781108P01         2SC1740         Q617         48781104P01         2SA333A         Q502         48781104P01         2SA333A           Q216         48781104P01         2SA015         Q501         48781104P01         2SA333A           Q217         48781104P01         2SA333A         Q502         48781104P01         2SA333A           Q217         48781104P01         2SA333A         Q502         48781104P01         2SA333A           Q217         48781104P01         2SA333A         Q502         48781104P01         2SA333A           Q217         48781104P01         2SA333A         Q504         48781104P01         2SA333A           Q301         48781104P01         2SA333A         Q504         48781104P01         2SA333A           Q401         48781104P01         2SA333A         Q505         48781104P01         2SA333A           Q401         48781104P01         2SC1815         Q505         48781104P01         2SA3015           Q505         Q505         48781104P01         2SA1015         Q505         4878104P01         2SA1015  |        |           |             |             |              | •  |
| ♦ or 48781101F01         28216         48781101F01         282185         ♦ Q412         48781103F01         2821740           ♦ or 48781101F01         2821815         ♦ Q412         48781103F01         2821140           ♦ Q216         48781101F01         2821815         ♥ G501         48781104F01         28383A           ♦ Q217         48781102F01         2831015         ♥ G502         48781102F01         2831015           ♦ Q217         48781104F01         283838A         ♥ G603         48781102F01         2831015           ♦ Q217         48781104F01         283838A         ♥ G603         48781102F01         2831015           ♦ Q301         48781104F01         283838A         ♥ G604         48781102F01         2831015           ♦ Q301         48781104F01         282838A         ♥ Q604         48781104F01         283933A           ♦ Q301         48781104F01         2821740         ♥ Q605         48781102F01         2831015           ♦ Q301         48781104F01         2821815         ♥ Q605         48781102F01         2831015           ♦ Q302         48781104F01         2821815         ♥ Q605         48781104F01         2831015           ♦ Q303         48781104F01         2821815         ♥ Q602<  |        |           | 2SA1015     | 48T81102F01 | Q411         |    |
| ♦ 0r         48781101F01         28C1815         ♦ 0412         48781108F01         28C1740           ♦ 0r         48781101F01         28C1815         ♦ 07         48781101F01         28C1815           ♦ 0r         48781101F01         28C1815         ♦ 050         48781104F01         28A1015           ♦ 0r         48781104F01         28C1815         ♦ 050         48781104F01         28A1015           ♦ 0r         48781104F01         28A38A         ♦ 050         48781104F01         28C1740           ♦ 0r         48781104F01         28A38A         ♦ 050         48781104F01         28A38A         ♦ 050         48781104F01         28A38A           ♦ 0r         48781104F01         28A38A         ♦ 050         48781104F01         28A393A         ♦ 050         48781104F01         28A393A           ♦ 0r         48781104F01         28C1740         ♦ 07         48781104F01         28A393A         ♦ 050         48781104F01         28A3015           ♦ 0r         48781104F01         28C1740         ♦ 050         48781104F01         28A303A           • 0r         48781104F01         28C1815         • 050         48781104F01         28A1015           • 0r         48781104F01         28C1815         •  | ļ      |           | 2SA933A     | 48T81104F01 | or           |    |
| ↓ Q216         48781103P01         2SC1740         □ Or 48781101F01         2SC1815         □ Or 48781101F01         2SC1815         □ Or 48781102F01         2SA1015         □ Or 48781102F01         2SC1874         □ Or 48781102F01         2SC1874         □ Or 48781102F01         2SC1874         □ Or 48781102F01         2SA1015         □ Or 48781102F01         2SA1015         <   |        |           | 2SC1740     | 1           |              | •  |
| ♦ Or         48781101F01         28C1815         Q501         48781102F01         28A1015           ♦ Q216         48781103F01         28C1740         Q502         48781104F01         28A933A           ♦ Q217         48781102F01         28A1015         Q502         48781103F01         28C1740           ♦ Q217         48781102F01         28A1015         Q503         48781102F01         28A1015           ♦ Q217         48781104F01         28A938A         Q503         48781104F01         28A933A           • Q301         48781105F01         28C1740         • Q604         48781102F01         28A1015           • Q301         48781105F01         28C1740         • Q605         48781102F01         28A1015           • Q302         48781105F01         28C1740         • Q605         48781102F01         28A1015           • Q302         48781105F01         28C1740         • Q605         48781102F01         28A1015           • Q303         48878105F01         28C1740         • Q605         48781102F01         28A1015           • Q303         4878105F01         28C1740         • Q602         48840732F02         28C1674           • Q304         4878105F01         28C1740         • Q602         48840732F   |        |           | I .         | į           |              | •  |
| Q Q216         48781103F01         2851740         Q502         48781103F01         2851740         Q503         48781103F01         2851015         Q505         48781103F01         2851015         Q505         48781103F01         2851015         Q505         48781103F01         2851015         Q505         48781103F01         2851015         Q601         48784103F01         2851015         Q601         48784103F01         2851015         Q601         48784103F01         2851015         Q601         48784103F01         2851674         Q602         48840732F02         2851674         Q602         48840732F02         2851674         Q602         48840732F02  |        |           | 1           | 1           |              | آ  |
| Q 216         48781108701         28C1740           Q 0 r         487811016701         28C1815           Q 217         48781104701         28A1015           Q 217         48781102701         28A1015           Q 217         48781104701         28A933A           Q 217         48781104701         28A1015           Q 217         48781104701         28A1015           Q 218         28A933A         Q 604           Q 301         48781104701         28A1015           Q 301         48781104701         28C1815           Q 3801         48781104701         28C1815           Q 3801         48781104701         28C1815           Q 3801         48781104701         28C1815           Q 3802         48781104701         28C1815           Q 3803         48781104701         28C1815           Q 3804         48781104701         28C1815           Q 3805         48781104701         28C1815           Q 3807         48781104701         28C1815           Q 3808         48781104701         28C1815           Q 3807         48781104701         28C1815           Q 3807         48781104701         28C1815   |        |           |             |             | -            |    |
| ♦ 0r         48781101F01         2851015         Q502         48781102F01         2851015           • 0r         48781102F01         2854015         Q503         48781102F01         2851015           • 0r         48781102F01         2854015         Q503         48781104F01         2854015           • 0r         48781104F01         2854383A         Q504         48781104F01         285433A           • 0g01         48781108F01         2851740         Q505         48781104F01         28543015           • 0r         48781101F01         2851815         Q505         48781102F01         28541015           • 0r         48781101F01         2851815         Q605         48781102F01         2851015           • 0r         48781101F01         2851815         Q602         48840732F02         28516  |        |           | 25/1000/1   | 20101104101 | J1           |    |
| ♦ Q217         48781102F01         2SA1015         or         48781102F01         2SA938A         or         48781102F01         2SA938A         or         48781102F01         2SA938A         or         48781102F01         2SA1015         or         0802         48840732P02         2SC1674         or         or         0802         48840732P0  |        |           | 2001740     | 40T01100D01 | 0500         |    |
| ♦ or d8T81104F01         283838A         Q503         48T81104F01         284015           ♦ q217         48T81104F01         284015   |        |           | ł           | i           | -            | l  |
| ♦ Q217         48781102F01         28383A         0 G04         48781102F01         283933A         0 G04         48781102F01         283933A         0 G04         48781102F01         2831015         0 G04         48781102F01         2831015         0 G04         48781102F01         2831015         0 G05         48781102F01         2831015         2831015         0 G05         48781102F01         2831015         283101  | -      |           | į           | 1           |              |    |
| ♦ 07       48781104F01       28A988A       Q804       48781104F01       2SA1015         • Q801       48781103F01       2SC1740       • Q505       48781102F01       2SA1015         • Q801       48781101F01       2SC1740       • Q505       48781102F01       2SA1015         • Q707       48781103F01       2SC1740       • Q505       48781102F01       2SA1015         • Q802       48781103F01       2SC1815       • Q505       48781102F01       2SA1015         • Q803       48840732F02       2SC1674       • Q801       48840732F02       2SC1674         • Q803       48781103F01       2SC1740       • Q802       48840732F02       2SC1674         • Q804       48781103F01       2SC1815       • Q802       48840732F02       2SC1674         • Q805       48781104F01       2SC1815       • Q802       48840732F02       2SC1674         • Q807       48781104F01       2SC1815       • Q803       48840732F02       2SC1674         • Q807       48781104F01       2SA333A       • Q803       4884077001       1N4003         • Q808       48781104F01       2SA333A       • Q803       48840477001       1N4003         • Q808       48781104F01       2SC1815   |        |           |             | 1           | Q503         |    |
| Q301       48T81103F01       2SC1740         ◆ or       48T81104F01       2SC1815         ◇ Q301       48T81104F01       2SC1815         ◇ or       48T81104F01       2SC1815         ◇ or       48T81104F01       2SC1815         ◇ or       48T81104F01       2SC1815         ◇ or       48T81104F01       2SC1815         ○ q802       48T81104F01       2SL1015         ○ q803       48S40732P02       2SC1674         ○ q804       48T81104F01       2SC1815         ○ q805       48T81104F01       2SC1815         ○ q806       48T81104F01       2SC1815         ○ q807       48T81104F01       2SC1815         ○ q807       48T81104F01       2SA933A         ○ q807       48T81104F01       2SA933A         ○ q808       48T81104F01       2SA933A         ○ q809       48T81104F01       2SA933A         ○ q809       48T81104F01       2SA933A         ○ q807       48T81104F01       2SA933A         ○ q808       48T8104F01       2SA933A         ○ q809       48T8104F01       2SA933A         ○ q809       48T8104F01       2SA933A         ○ q809       48T81   | ĺ      |           | i           | 1           |              | 1  |
| ◆ Q301       48781103F01       2SC1740         ◆ Or       48781103F01       2SC1815         ◇ Q301       48781103F01       2SC1740         ◇ Or       48781103F01       2SC1815         Q302       48781103F01       2SC1815         Or       48781103F01       2SC1815         Q303       48540732P02       2SC1874         Q305       48781103F01       2SC1815         Q306       48781103F01       2SC1815         Q307       48781103F01       2SC1815         Q308       48781103F01       2SC1815         Q307       48781103F01       2SC1815         Q307       48781102F01       2SA1015         Q307       48781102F01       2SA1015         Q308       48781102F01       2SA1015         Q309       48781102F01       2SA1015         Q301       48781102F01       2SA1015         Q302       48781102F01       2SA1015         Q303       48781102F01       2SA1015         Q304       48781102F01       2SA1015         Q305       48781102F01       2SA1015         Q306       48781102F01       2SA1015      2A101       2SA1015       2SA1015 <td></td> <td></td> <td>2SA1015</td> <td>48T81102F01</td> <td>Q504</td> <td></td>  |        |           | 2SA1015     | 48T81102F01 | Q504         |    |
| ♦ Or Q801 48781101F01 28C1815         28C1740         Q505 48781102F01 28A1015         28A1015 28A1015           ♦ Q802 48781103F01 or 48781103F01 28C1815         Q602 48840732P02 28C1674 Q602 48840732P02 18C1675 Q602 48840732P02 28C1674 Q602 48840732P02 18C1675 Q602 48  |        |           | 2SA933A     | 48T81104F01 | or           |    |
| ♦ or Q801         48T81103F01 2SC1740         2SC1815         Q505 48T81102F01 2SA1015         2SA1015         Q505 48T81102F01 2SA1015         Q602 48SA0732P02 2SC1674         Q505 48T81102F01 2SC1674         Q602 48SA0732P02 2SC1674         Q505 48T81102F01 2SC1674         Q602 48SA0732P02 2SC1674         Q602 48SA0732P02 2SC1674         Q602 48SA0732P02 2SC1674         Q602 48SA0732P02 2SC1674         Q603 48SA10732P02 2SC1674         Q6   | ŀ      |           |             |             |              |    |
| Q801       48T81103F01 or 48T81101F01 2SC1815       2SC1740 or 48T81101F01 2SC1815       Q505 48T81102F01 2SA1015       2SA1015 DTA124E         Q802       48T81101F01 2SC1815 or 48T81101F01 2SC1815 or 48T81101F01 2SC1815 or 48T81101F01 2SC1815 or 48T81101F01 2SC1815       Q601 48S40732P02 2SC1674       Q601 48S40732P02 2SC1674       Q601 48S40732P02 2SC1674         Q303       48T81103F01 2SC1815 or 48T81101F01 2SC1815       Q602 48S40732P02 2SC1674       Q602 48S40732P02 2SC1674       Q602 48S40732P02 2SC1674         Q306       48T81103F01 2SC1815       Q603 48S4103F00 2SC1675       Q603 48S4103F00 2SC1675       Q603 48S44580J03 2SC1675         Q307       48T81104F01 2SA933A 2GO 48T81104F01 2SA933A 2GO 48T81104F01 2SA933A 2GO 48T81104F01 2SA933A 2GO 48T81104F01 2SC1815 2SC1740 2GO 48T81104F01 2SC1815 2SC1740 2GO 44ST4813F01 2SC1740 2GO 44ST4813F01 2SC1740 2GO 44ST4813F01 2SC1740 2GO 44ST4813F01 2SC1740 2GO 48T81104F01 2SC1815 2SC1740 2GO 48T44813F01 4GO 48T81104F01 2SC1815 2SC1740 2GO 48T44813F01 4GO 48T44813F01 4GO 4AT7001 2SC1740 2GO 48T44813F01 4GO 4AT7001 2GO 48T44813F01 4GO 4AT7001 2GO 4AT70   |        |           | 2SA1015     | 48T81102F01 | Q505         | •  |
| ♦ 0r Q302 48T81101F01 QSC1815         2SC1740 Q802 48T81102F01 QSC1815         2SC1815 Q510 48T82964F03 DTA124E         2SA1015 Q510 48T82964F03 DTA124E           Q303 48S40732P02 Q305 48T81103F01 Q305 48T81103F01 Q306 AFT81103F01 Q306 Q306 Q307 Q307 48T81104F01 Q306 Q307 Q307 48T81104F01 Q308 Q307 Q307 48T81104F01 Q308 Q308 AFT8104F01 Q308 Q308 AFT8104F01 Q308 Q308 Q308 Q308 Q308 Q308 Q308 Q308  | ĺ      |           | 2SA1015     | 48T81102F01 | Q505         | 0  |
| Q302       48T81103F01       2SC1740       Q801       48T82984F03       DTA124E         Q303       48S40732P02       2SC1674       Q801       48S40732P02       2SC1674         Q303       48S40732P02       2SC1674       Q802       48S40732P02       2SC1674         Q305       48T81103F01       2SC1740       Q802       48S40732P02       2SC1674         Q306       48T81103F01       2SC1815       Q802       48S40732P02       2SC1674         Q401       48T81102F01       2SA1015       Q802       48S40732P02       2SC1674         Q307       48T81102F01       2SA1015       Q803       48S44580J03       2SC1875         Q308       48T81102F01       2SA1015       Q803       48S40477U01       1N4003         Q308       48T81102F01       2SA1015       Q803       48S40477U01       1N4003         Q308       48T81102F01       2SA1015       Q803       48S40477U01       1N4003         Q401       48T81103F01       2SC1740       Q803       48S40477U01       1N4003         Q401       48T81103F01       2SC1815       Q803       48T44813F01       MA165TA         Q402       48T81103F01       2SC1740       Q803       48T44813F01   |        |           | 2SA1015     | 1           | 1            | •  |
| Or       48781101F01       28C1815       ◆       Q801       48840732P02       28C1874         Q303       48840732P02       28C1674       ◆       Q802       48840732P02       28C1674         Q305       48781108F01       28C1815       ◆       Q802       48840732P02       28C1674         Q306       48781108F01       28C1815       ◆       Q802       48840732P02       28C1674         ♦       Q307       48781102F01       28C1815       ◆       Q802       48840732P02       28C1674         ♦       Q307       48781102F01       28C1815       ◆       Q803       48840732P02       28C1674         ♦       Q307       48781102F01       28C1815       ◆       Q803       48844580J03       28C1675         ♦       Q307       48781104F01       28A33A       D004       28A90477001       1N4003         ♦       Q401       48781104F01       28A933A       D005       48840477001       1N4003         ♦       Q401       48781104F01       28C1740       D006       48744813F01       MA1657A         ♦       Q401       48781104F01       28C1740       D006       48744813F01       MA1657A         ♦       Q402   | - 1    |           | I .         | ľ           |              |    |
| Q303  |        |           |             | 1           | l -          |    |
| Q305       48T81103F01 or 48T81101F01       2SC1740       ♦ Q602 48S40732P02 2SC1674       2SC1674         Q306       48T81103F01 or 48T81101F01       2SC1815       ♦ Q603 48S44580J03 2SC1675       2SC1675         ♦ Q307       48T81102F01 2SA1015 or 48T81104F01 2SA933A or 48T81102F01 2SA1015 or 48T81104F01 2SA933A       ■ D10des       ■ D10des         ♦ Q308       48T81104F01 2SA933A or 48T81104F01 2SA933A       ■ D001 48S40477U01 1N4003 are 1N4003 ar   |        |           | 2001014     | 20020102102 | 4001         | •  |
| Q305 48781103F01 2SC1740 or 48781101F01 2SC1815  Q306 48781102F01 2SC1815  → Q307 48781104F01 2SA933A  ○ Q307 48781104F01 2SA933A  ○ Q308 48781102F01 2SA1015  ○ or 48781104F01 2SA933A  ○ Q401 48781103F01 2SC1740  ○ or 48781101F01 2SC1815  ○ Q401 48781103F01 2SC1740  ○ or 48781101F01 2SC1815  ○ Q401 48781103F01 2SC1740  ○ or 48781101F01 2SC1815  ○ Q402 4874813F01 MA165TA  ○ D008 48744813F01 MA165TA  |        |           | 0001074     | 40040720000 | 0000         |    |
| or       48781101F01       2SC1815       ♦       Q802       48840732P02       2SC1674         or       48781101F01       2SC1815       ♦       Q603       48844580J03       2SC1675         ◆ Q307       48781102F01       2SA1015       ♦       Q603       48844580J03       2SC1675         ♦ Q307       48781104F01       2SA933A       ♦       Dlodes         ♦ Q308       48781102F01       2SA1015       ♦       D001       48840477U01       1N4003         Q308       48781104F01       2SA933A       ♦       D002       48840477U01       1N4003         ♦ Q401       48781103F01       2SC1740       ♦       D005       48744813F01       MA165TA         ♦ Q402       48781101F01       2SC1815       ♦       D006       48744813F01       MA165TA         ♦ Q402       48757305F01       2SD1302       ♦       D008       48744813F01       MA165TA   |        |           |             | 1           |              |    |
| Q806  |        |           |             | I           |              | •  |
| OF       48T81101F01       2SC1815         ◆ Q307       48T81102F01       2SA1015         ○ Q307       48T81102F01       2SA933A         ○ Q308       48T81102F01       2SA933A         ○ Q308       48T81102F01       2SA1015         ○ Or       48T81104F01       2SA933A         ○ Q401       48T81103F01       2SC1740         ◆ Or       48T81101F01       2SC1815         ○ Q401       48T81103F01       2SC1740         ◆ Or       48T81101F01       2SC1815         ○ Q402       48T81101F01       2SC1815         ○ Q402       48T81101F01       2SC1815         ○ D008       48T44813F01       MA165TA         ○ D008       48T44813F01       MA165TA         ○ D008       48T44813F01       MA165TA  |        |           |             | Į.          |              | 0  |
| ◆ Q307       48T81102F01 / or 48T81104F01       2SA933A       Diodes         ◆ Q307       48T81102F01 / Q308 /   |        |           | 2SC1675     | 48S44580J03 | Q603         | •  |
| ♦ Or         48T81104F01         2SA933A         Diodes           ♦ Q307         48T81104F01         2SA933A         D001         48S40477U01         IN4003           Q308         48T81102F01         2SA933A         D002         48S40477U01         IN4003           Or         48T81104F01         2SA933A         D003         48S40477U01         IN4003           D004         48T81103F01         2SC1740         D004         48S40477U01         IN4003           D004         48T81103F01         2SC1815         D005         48T44813F01         MA165TA           Or         48T81101F01         2SC1815         D006         48T44813F01         MA165TA           Or         48T81101F01         2SC1815         D007         48T44813F01         MA165TA           Or         48T57305F01         2SD1302         D008         48T44813F01         MA165TA   | - 1    |           |             |             |              |    |
| ♦ Or         48T81104F01         2SA933A         Diodes           ♦ Q307         48T81104F01         2SA933A         D001         48S40477U01         IN4003           Q308         48T81102F01         2SA933A         D002         48S40477U01         IN4003           Or         48T81104F01         2SA933A         D003         48S40477U01         IN4003           D004         48T81103F01         2SC1740         D004         48S40477U01         IN4003           D004         48T81103F01         2SC1815         D005         48T44813F01         MA165TA           Or         48T81101F01         2SC1815         D006         48T44813F01         MA165TA           Or         48T81101F01         2SC1815         D007         48T44813F01         MA165TA           Or         48T57305F01         2SD1302         D008         48T44813F01         MA165TA   |        |           |             | į           |              |    |
| ♦ Or       48T81104F01       2SA933A       Diodes         ♦ Q307       48T81104F01       2SA933A       D001       48S40477U01       IN4003         Q308       48T81102F01       2SA933A       D002       48S40477U01       IN4003         Or       48T81104F01       2SA933A       D003       48S40477U01       IN4003         D004       48S40477U01       IN4003       D004       48S40477U01       IN4003         D004       48S40477U01       IN4003       D005       48T44813F01       MA165TA         Or       48T81103F01       2SC1740       D006       48T44813F01       MA165TA         Or       48T81101F01       2SC1815       D007       48T44813F01       MA165TA         Q402       48T57305F01       2SD1302       D008       48T44813F01       MA165TA   |        |           |             |             |              |    |
| Q307       48T81102F01       2SA1015       Diodes         Q308       48T81104F01       2SA933A       D001       48S40477U01       IN4003         Q308       48T81104F01       2SA933A       D002       48S40477U01       IN4003         D003       48S40477U01       IN4003         D004       48S40477U01       IN4003         D005       48T44813F01       MA165TA         Q401       48T81103F01       2SC1740         Q401       48T81103F01       2SC1740         Q402       48T81101F01       2SC1815         Q402       48T57305F01       2SD1302  |        |           | <u> </u>    |             |              | L  |
| Or       48T81104F01       2SA933A       D001       48S40477U01       1N4003         Q308       48T81102F01       2SA1015       D002       48S40477U01       1N4003         D003       48S40477U01       1N4003       D004       48S40477U01       1N4003         D004       48T81103F01       2SC1740       D005       48T44813F01       MA165TA         Or       48T81103F01       2SC1740       D006       48T44813F01       MA165TA         Or       48T81101F01       2SC1815       D007       48T44813F01       MA165TA         Q402       48T57305F01       2SD1302       D008       48T44813F01       MA165TA   |        |           |             |             | iodes        |    |
| Q308 or       48T81102F01 or       2SA1015 2SA933A       D002 48S40477U01 1N4003 1N4003 1N4003         ◆ Q401  48T81103F01 or       2SC1740 2SC1815 2SC1815 2SC1740 2SC1815 1N4003 2SC1740 2SC1815 2SC1740 2SC1815 2SC18  | T      |           | IN4003      | 48S40477U01 |              |    |
| or       48T81104F01       2SA933A       D003       48S40477U01       1N4003         ↓       Q401       48T81103F01       2SC1740       D005       48T44813F01       MA165TA         ↓       Q401       48T81101F01       2SC1740       D006       48T44813F01       MA165TA         ↓       Or       48T81101F01       2SC1815       D007       48T44813F01       MA165TA         ↓       Q402       48T57305F01       2SD1302       D008       48T44813F01       MA165TA  | -      |           |             |             | l            |    |
| Q401       48T81103F01 or 48T81103F01 or 48T81101F01 or 48T81101F01 Q402       2SC1740 or 48T81101F01 at 3501 cor 48T8110F01 at 3501 cor 48T8110F  |        |           | 1           | 1           | 1            | 1  |
| ◆ Q401 or or Q401 Q48781103F01 or Q402       48781101F01 A8757305F01       2SC1740 2SC1815 Or Q402       D006 A8744813F01 D006 A8744813F01 D007 A8744813F01 D007 A8744813F01 D007 A8744813F01 D008 A8744813F01 D008 A8744813F01 MA165TA       MA165TA MA165TA MA165TA   |        |           | 1           | 1           | 1            |    |
| ♦ Or Q401       48781101F01 48781103F01 Q402       28C1815 28C1740       D006 48744813F01 D007 48744813F01 MA165TA         ♦ Or Q402       48757305F01 28D1302       D008 48744813F01 MA165TA   |        |           | i           |             | 1            |    |
| ♦ Q401       48T81103F01       2SC1740       D006       48T44813F01       MA165TA         ♦ Q402       48T57305F01       2SC1815       D008       48T44813F01       MA165TA         ♦ D008       48T44813F01       MA165TA         ♦ D008       48T44813F01       MA165TA         MA165TA       MA165TA   |        |           | Fallooin    | 40144010101 | נטטט         |    |
| ◇ or Q402       48T81101F01 48T57305F01       2SC1815 2SD1302       D007 48T44813F01 MA165TA       MA165TA MA165TA         ♦ D008 48T44813F01 MA165TA       MA165TA   |        | 1         | MATCETA     | 40744040704 | DOOG         |    |
| Q402 48T57305F01 2SD1302  |        |           | 1           | T .         | 1            |    |
|   |        |           | 1           | ł.          | i            | ١. |
|   |        |           | 1           | E .         | 1            | •  |
|   |        |           | 1           |             | D008         | \$ |
|   |        |           | MA165TA     | 48T44813F01 | D009         |    |
|   |        |           |             |             |              |    |
|   |        |           |             |             |              |    |

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

★: For General Foreign model only (EK)

◆: For West Germany model only (T-117L SD)

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

| _   | No.  | Part No.    | Description |     |     | L'           | No.   | Part No.    | Description  |     |   |
|-----|------|-------------|-------------|-----|-----|--------------|-------|-------------|--------------|-----|---|
| T   | D010 | 48T44813F01 | MA165TA     |     |     |              | D402  | 48T44813F01 | MA165TA      |     | T |
| Ì   | D011 | 48T44813F01 | MA165TA     |     | 1   |              | D403  | 48T44813F01 | MA165TA      | 1   | 1 |
| ,   | D012 | 48T44813F01 | MA165TA     |     |     |              | D404  | 48T44813F01 | MA165TA      | ]   |   |
| - 1 | D013 | 48T44813F01 | MA165TA     |     |     | 1            | D405  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D014 | 48T44813F01 | MA165TA     |     |     | •            | D406  | 48T44813F01 | MA165TA      | 1   |   |
|     |      |             |             |     |     | 1            |       |             |              |     |   |
| - 1 | D018 | 48T44813F01 | MA165TA     | )   |     |              | D409  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D017 | 48T44813F01 | MA165TA     |     |     | •            | D410  | 48T44813F01 | MA165TA      |     |   |
| -   | D018 | 48T44813F01 | MA165TA     |     |     | 1            | D411  | 48T44813F01 | MA165TA      | }   |   |
| -   | D019 | 48T44813F01 | MA165TA     |     |     | 1            | D413  | 48T44813F01 | MA165TA      |     |   |
| 1   | D105 | 48T44813F01 | MA165TA     |     |     |              | D414  | 48T44813F01 | MA165TA      |     |   |
| .   | D105 | 48T44813F01 | MA165TA     |     |     |              | D501  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D105 | 48T44813F01 | MA165TA     |     |     |              | D502  | 48T44813F01 | MA165TA      |     |   |
|     | D105 | 48T44813F01 | MA165TA     |     |     | <b> </b> ★   | D502  | 48T44813F01 | MA165TA      | 1   | 1 |
| - 1 | D106 | 48T44813F01 | MA165TA     |     |     | •            | D502  | 48T44813F01 | MA165TA      |     |   |
|     | D107 | 48T44813F01 | MA165TA     |     |     | 0            | D502  | 48T44813F01 | MA165TA      |     |   |
|     | וטוע | 40144010101 | MAIOUIN     |     |     | `            | D302  | 46144615701 | MAIOSIA      |     |   |
|     | D108 | 48T44813F01 | MA165TA     |     |     | ☆            | D502  | 48T44813F01 | MA165TA      |     |   |
|     | D109 | 48T44813F01 | MA165TA     |     |     |              | D503  | 48T44813F01 | MA165TA      | 1   |   |
| .   | D110 | 48T44813F01 | MA165TA     |     | 1   | *            | D503  | 48T44813F01 | MA165TA      |     | 1 |
|     | D111 | 48T44813F01 | MA165TA     |     | ]   | ☆            | D503  | 48T44813F01 | MA165TA      |     |   |
|     | D112 | 48T44813F01 | MA165TA     |     |     | •            | D504  | 48T44813F01 | MA165TA      |     |   |
|     | D113 | 48T44813F01 | MA165TA     |     |     | <b>\</b>     | D504  | 48T44813F01 | MA165TA      |     |   |
| - [ | D115 | 48T44813F01 | MA165TA     |     | 1 1 |              | D505  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D117 | 48T44813F01 | MA165TA     |     |     |              | D506  | 48T44813F01 | MA165TA      | 1   | 1 |
| - 1 | D118 | 48T44813F01 | MA165TA     |     | [ [ | <del>*</del> | D506  | 48T44813F01 | MA165TA      | 1 . | 1 |
| - 1 | D201 | 48T44813F01 | MA165TA     |     |     | 1            | D506  | 48T44813F01 | MA165TA      |     |   |
| >   | D001 | 48T44813F01 | MA165TA     |     |     | 1            | D507  | 48T44813F01 | MA165TA      |     | ļ |
| - 1 | D201 |             | 1           |     | 1   |              | 1     |             |              | 1.  |   |
| - 1 | D202 | 48T44813F01 | MA185TA     |     | ii  |              | D801  | 48T44813F01 | MA165TA      | - [ | - |
| >   | D202 | 48T44813F01 | MA165TA     |     |     | •            | D701  | 48T44813F01 | MA165TA      | 1   | İ |
|     | D204 | 48T44813F01 | MA165TA     |     |     | •            | D702  | 48T44813F01 | MA165TA      | 1   | Ì |
|     | D227 | 48T44813F01 | MA165TA     |     |     | •            | D703  | 48T44813F01 | MA165TA      |     |   |
| •   | D228 | 48T44813F01 | MA165TA     |     |     | •            | D704  | 48T44813F01 | MA165TA      |     |   |
| ا د | D228 | 48T44813F01 | MA165TA     |     |     |              | D705  | 48T44813F02 | MA165        | -   | 1 |
|     | D229 | 48T44813F02 | MA165       |     | 1 1 |              | D706  | 48T44813F02 | MA165        |     | - |
| >   | D229 | 48T44813F02 | MA165       |     |     |              | D707  | 48T44813F02 | MA165        | ļ   | 1 |
|     | D301 | 48T44813F01 | MA165TA     |     |     |              | D708  | 48T44813F01 | MA165TA      |     |   |
|     | nenn | A0TAA010D01 | MA165TA     |     |     |              | D700  | 40744010001 | WATCETA      |     |   |
| - 1 | D302 | 48T44813F01 | ł .         |     |     |              | D709  | 48T44813F01 | MA165TA      |     |   |
|     | D302 | 48T44813F01 | MA165TA     |     |     |              | D710  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D303 | 48T44813F01 | MA185TA     |     |     |              | D711  | 48T44813F01 | MA165TA      |     |   |
| >   | D303 | 48T44813F01 | MA165TA     |     |     | •            | D712  | 48T44813F01 | MA165TA      |     |   |
|     | D304 | 48T44813F01 | MA165TA     |     |     | •            | D713  | 48T44813F01 | MA165TA      |     |   |
|     | D305 | 48T44813F01 | MA165TA     |     |     | •            | D714  | 48T44813F02 | MA165        |     |   |
| - } | D306 | 48T44813F01 | MA165TA     |     |     | •            | D715  | 48T44813F01 | MA165TA      |     |   |
| - 1 | D350 | 48T44813F02 | MA185       |     |     |              | ZD001 | 48T52739F38 | Zener HZ6B-2 |     |   |
| ł   | D350 | 48T44813F02 | MA165       | 1 1 |     | 1            | ZD002 | 48T52739F38 | Zener HZ6B-2 |     |   |
| - 1 | D401 | 48T44813F01 | MA165TA     |     |     |              | ZD003 | 48T52739F43 | Zener HZ7A-1 |     |   |
| - 1 |      | 1           | 1           | 1 1 | - 1 | 1            |       |             |              |     | 1 |

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆:</sup> For West Germany model only (T-117L SD)

 $<sup>\ \ \, \</sup>dot{\alpha}: For \ \, General \ \, Foreign \ \, model \ \, only \ \, (T-03L \ SD) \quad \, Others: Common$ 

|            |                |                            | <u></u>                                   |             |   |          |               |              | ·                         | 1 1      |
|------------|----------------|----------------------------|---|-------------|---|----------|---------------|--------------|---------------------------|----------|
| S          | /mbol          | Part No.                   | Description                               |             |   |          | Symbol<br>No. | Part No.     | Description               | .]       |
| Т          | No.<br>ZD004   | 48T52739F65                | Zener HZ11B-2                             |             |   | -        |               | eramic Locks |                           |          |
|            | ZD004<br>ZD007 | 48T52739F97                | Zener HZ30-1                              |             |   | $\vdash$ | X201          | 48T84608F02  | NDK 32.9075MHZ            | T T      |
|            | ZD007          | 48T52739F95                | Zener HZ27-2                              |             |   |          | X501          | 48T84664F01  | 3.2M NDK                  |          |
|            | ZD101          | 48T52739F11                | Zener HZ3B-2                              |             | i |          | X502          | 48T84663F01  | 7.2M NDK                  |          |
|            |                | <b>1</b>                   | Zener HZ6C-1                              | 1           |   |          | X503          | 48T84663F01  | 7.2M NDK                  |          |
|            | ZD201          | 48T52739F40                | Zeller nzoc-1                             |             |   |          | X601          | 48T84595F01  | NDK 64.95MHZ              |          |
|            | 77D 4 O 1      | 48T52739F53                | Zener HZ9A-2                              |             |   |          | 7001          | 40104000101  | NDR 04.50mil              |          |
|            | ZD401          |                            | Zener HZ6C-1                              |             |   | 1        | X401          | 91T68469F03  | Ceramic Lock 456F11       |          |
| -          | ZD701          | 48T52739F40                |   | •           |   |          | X701          | !            | Ceramic Lock CSB472F2     |          |
|            | ZD701          | 48T52739F35                | Zener HZ6A-2                              |             |   |          | YIOT          | 91T84612F01  | Ceramic Lock CSB472F2     |          |
| *          | ZD701          | 48T52739F35                | Zener HZ6A-2                              |             |   |          |               |              |                           |          |
| •          | ZD701          | 48T52739F35                | Zener HZ6A-2                              |             |   |          |               |              |                           |          |
| الد        | ZD701          | 48T52739F35                | Zener HZ6A-2                              |             |   | 1        | l             |              |                           |          |
| ☆          | l              | 48T52739F35                | Zener HZ6A-2                              |             |   | $\vdash$ | Capacito:     |              | 1                         | <u> </u> |
| <b>♦</b>   | ZD701          | 48152739F35<br>48T52826F01 | Varactor SVC321SP-A2                      |             |   | -        | C001          | 23S41198U66  | ELY. 1000 μF/35V          | 1 1      |
| <b>◆</b>   | VD301          | 48152826F01                | Varactor SVC321SP-A2                      |             |   |          | C002          | 23S40657F14  | ELY. 1000 \( \mu \) F/16V |          |
| $\Diamond$ | VD301          | 1                          | Varactor SVC321SP-A2                      |             |   |          | C002          | 23S40657F14  | ELY. 100 μ F/16V          |          |
|            | VD302          | 48T52826F01                | MALACIOL SACOTIOL-VI                      |             |   |          | C004          | 23S40657F13  | ELY. 47 μF/16V            |          |
|            | ımeaa          | 10mm 0000004               | Namedae OVOQQIOD 10                       |             |   |          | C004          | 23S40657F14  | ELY. 100 μ F/16V          |          |
| <b>•</b>   | VD303          | 48T52826F01                | Varactor SVC321SP-A2 Varactor SVC321SP-A2 |             |   |          | C000          | 40340001714  |                           |          |
| $\Diamond$ | VD303          | 48T52826F01                | Varactor SVC321SP-A2                      |             |   |          | C007          | 23T74513F06  | ELY. 18 μF/5.5V           |          |
|            | VD304          | 48T52826F01                | varactor Syc321SP-A2                      |             |   |          | C008          | 23S40657F10  | ELY. 10 μF/16V            |          |
|            |                | İ                          |   |             |   |          |               | 23S40657F26  | ELY. 47 μF/35V            |          |
|            |                |                            |   |             |   |          | C009          | 1            |                           |          |
|            |                | 1                          |   |             |   |          | C010          | 23S40657F26  | ELY. 47 μF/35V            |          |
| <u> </u>   |                |                            | 1   |             | L |          | C011          | 23S40657F32  | ELY. 10 μF/50V            |          |
|            | Switches       |                            | Slide SSSS22                              |             |   |          | C012          | 23S40657F32  | ELY. 10 μ F/50V           |          |
| *          | \$401          | 40T72577F01                | Slide SSSS22                              |             |   |          | C012          | 23S40657F28  | ELY. 47 $\mu$ F/35V       |          |
| ☆          | S401           | 40T72577F01                |   |             |   | 1        | C014          | 23S40657F13  | ELY. 47 μF/16V            |          |
| ١.         | S501           | 40T84669F01                | Slide SSSJ1(C)                            |             |   | 1        | C014          | 23S40657F32  | ELY. 10 μF/50V            |          |
| *          | S502           | 40T72576F01                | Slide SSSS21                              |             |   | 1        | C016          | 23S40657F13  | ELY. 47 μF/16V            |          |
| ☆          | S502           | 40T72576F01                | Slide SSSS21                              |             |   | 1        | C010          | 20340001713  | ΕΕΙ. 41 μ1/101            |          |
|            | S503           | 40T84669F01                | Slide SSSJ1                               |             |   |          | C017          | 08S40805F21  | CER. 0.022 μ F            |          |
|            | S504           | 40T72576F01                | Slide SSSS21                              |             |   |          | C018          | 08S40805F21  | CER. 0.022 \( \mu \) F    |          |
| *          | 1              | 40172576F01                | Slide SSSS21                              |             |   |          | C105          | 08S40805F21  | CER. 0.022 μF             |          |
| ☆          | S504           | 40112010101                | 31146 333321                              |             |   |          | C106          | 08S40805F21  | CER. 0.022 μ F            |          |
|            |                |                            |   |             |   | ŀ        | C107          | 08S40805F21  | CER. 0.022 μ F            |          |
|            |                |                            |   |             |   |          | 010,          | 00040000121  | ODA: 0.000 p. 1           |          |
|            |                |                            |   |             |   |          | C108          | 21S40655F11  | CER. 10pF                 |          |
| H          | Filters        |                            | 1   |             |   |          | C109          | 08S40805F21  | CER. 0.022 µ F            |          |
| •          | BF101          | 91T74482F01                | ВРМВ6А                                    |             |   |          | C110          | 08S40805F21  | CER. 0.022 µ F            |          |
| <b>♦</b>   | BF101          | 91T74482F01                | ВРМВ6А                                    |             |   |          | C111          | 08S40805F21  | CER. 0.022 µ F            |          |
| ě          | BF601          | 91T84593F01                | SAF54MC70Z                                |             |   |          | C112          | 08S40805F21  | CER. 0.022 µ F            |          |
| ٦          | CF101          | 91T84598F01                | SFE10.7MXK                                |             |   |          |               |              |                           |          |
| 1          | CF101          | 91T84599F01                | SFE10.7MS3G                               |             |   |          | C113          | 08S40805F21  | CER. 0.022 µ F            |          |
|            | 0, 102         | 0110100000                 |   |             |   |          | C114          | 23S40657F14  | ELY. 100 μ F/16V          |          |
|            | CF103          | 91T84599F01                | SFE10.7MS3G                               |             |   |          | C115          | 08S40805F21  | CER. 0.022 µ F            |          |
| 1          | CF104          | 91T51131F02                | SFE10.7 ML-A                              |             |   |          | C116          | 08S40805F21  | CER. 0.022 µ F            |          |
|            | CF301          | 91T60378F01                | CER. BFU450C4N                            |             |   |          | C117          | 08S40805F21  | CER. 0.022 µ F            |          |
| 1          | L401           | 91T84609F01                | ANT. BIRDY                                |             |   |          |               |              |                           |          |
| 1          |                | 91T66943F01                | MPX                                       |             |   |          | C118          | 08S40805F21  | CER. 0.022 µ F            |          |
|            | L402           | 91100949101                | ru A                                      |             |   |          | C119          | 08S40805F21  | CER. 0.022 µ F            |          |
|            | 1 400          | 01700049001                | MDA                                       |             |   |          | C120          | 08S40805F21  | CER. 0.022 µ F            |          |
|            | L403           | 91T66943F01                | MPX                                       |             |   |          | C120          | 08S40805F21  | CER. 0.022 µ F            |          |
|            |                |                            |   |             |   |          | C121          | 08S40805F21  | CER. 0.022 µ F            |          |
| 1          |                |                            |   |             |   |          | 0122          | 30030000121  |                           |          |
| Ц.         | ل              |                            | odel only (IA)                            | <del></del> |   | ب        |               | only (HZ)    | I                         |          |

Note: : For Japanese model only (JA)

<sup>:</sup> For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆:</sup> For West Germany model only (T-117L SD)

<sup>★:</sup> For General Foreign model only (T-03 EK) ♦: For West Germany model only (T-03L SD) Others: Common When replacing varactor diodes. VD301 ~VD304. always diode with the same rank.

— 48 —

| Symbol<br>No. | Part No.    | Description            |          |   |           | Symbol<br>No. | Part No.    | Description            |     |    |
|---------------|-------------|------------------------|----------|---|-----------|---------------|-------------|------------------------|-----|----|
| C123          | 08S4O805F21 | CER. 0.022 µ F         | 1        |   | ♦         | C224          | 08S40805F21 | CER. 0.022 μ F         | -   |    |
| C124          | 08S40805F21 | CER. 0.022 µ F         |          |   | •         | C225          | 23S40657F27 | ELY. 0.47 μF/50V       | -   |    |
| C125          | 08S4D805F21 | CER. 0.022 \( \mu \) F |          |   | 0         | C225          | 23S40657F27 | ELY. 0.47 μF/50V       |     | ļ  |
| C128          | 08S40805F21 | CER. 0.022 µ F         | 1 1      | 1 |           | 1             | i           |                        |     |    |
| 1             |             | 1                      |          |   | •         | C226          | 21S40855F27 | CER. 220pF             | 1   |    |
| C127          | 08S40805F21 | CER. 0.022 µ F         |          |   | 0         | C226          | 21S40655F27 | CER. 220pF             |     | ł  |
| ● C128        | 23S40657F10 | ELY. 10 μF/16V         |          |   |           | C227          | 21S40655F17 | CER. 33pF              |     |    |
| C129          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C228          | 08S40805F21 | CER. 0.022 µ F         |     | ĺ  |
| C130          | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C229          |             |                        |     |    |
| i             | 23S40657F14 | 1                      |          |   | 1         | l             | 23S40657F14 | ELY. 100 μ F/16V       |     | ĺ  |
| C131          | 1 -         | ELY. 100 μ F/16V       |          |   |           | C230          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C132          | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C231          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C133          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C232          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C134          | 23S40657F28 | ELY. 1 µ F/50V         |          |   |           | C233          | 08S40805F21 | CER. 0.022 \( \mu \) F |     |    |
| C135          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C234          | 21S40655F12 | CER. 12pF              | 1   |    |
| C136          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C235          | 21S40655F26 | CER. 180pF             |     |    |
| C137          | 08S40805F21 | CER. 0.022 \( \mu\) F  |          |   | 1         | C236          | 1           |                        | - { | l  |
| (13)          | 00340003121 | OER. 0.022 μ Γ         |          |   |           | C230          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C138          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C237          | 23S40657F14 | ELY. 100 μ F/16V       |     |    |
| C139          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C238          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C140          | 23S40657F27 | ELY. 0.47 μF/50V       |          |   |           | C239          | 08S40805F21 | CER. 0.022 µ F         |     | ı  |
| C141          | 23S40657F14 | ELY. 100 μ F/16V       |          |   | 1         | C240          | 08S40805F21 | CER. 0.022 µ F         |     |    |
| C142          | 23T42478F18 | ELY. 0.1 μ F/50V       |          |   |           | C241          | 08S40805F21 | CER. 0.022 µ F         |     |    |
| 1             | {           |                        |          |   |           |               |             |                        |     |    |
| C143          | 23S41198U27 | ELY. 47 μF/16V         |          |   | 1         | C242          | 08S40805F21 | CER. 0.022 µ F         |     | ĺ  |
| C201          | 08S40805F21 | CER. 0.022 $\mu$ F     |          |   |           | C243          | 08S40805F21 | CER. 0.022 µ F         |     | ĺ  |
| C202          | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C244          | 08S40805F08 | CER. 1200pF            |     |    |
| C203          | 08S40805F07 | CER. 1000pF            |          |   |           | C245          | 23S40657F10 | ELY. 10 μF/16V         |     | ĺ  |
| C204          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C246          | 23S40657F10 | ELY. 10 μF/16V         |     |    |
| 0005          | 00040005501 | OPP A AGG P            |          |   |           | 20.45         | 00010007701 | ODD 0 000 B            |     | ł  |
| C205          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C247          | 08S40805F21 | CER. 0.022 µ F         | 1   | l  |
| C206          | 23S40657F10 | ELY. 10 μF/16V         |          |   |           | C248          | 21S40655F17 | CER. 33pF              |     | ĺ  |
| C207          | 08S40805F21 | CER. 0.022 μ F         | [ ]      | İ |           | C249          | 08S40805F21 | CER. 0.022 μ F         |     |    |
| C208          | 23S40657F10 | ELY. 10 μF/16V         |          |   |           | C250          | 08S40805F21 | CER. 0.022 μ F         |     | 1  |
| C209          | 08S40805F21 | CER. 0.022 µ F         |          |   |           | C251          | 21S40655F17 | CER. 33pF              |     | ĺ  |
| C210          | 08S40805F07 | CER. 1000pF            |          |   |           | C252          | 21S40655F06 | CER. 5pF               |     | ĺ  |
| C211          | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C253          | 08S40656F13 | 1                      |     | ı  |
| C211          | 23S40657F14 | ELY. 100 μ F/16V       | } }      |   | <b>\Q</b> | C253          | 08S40656F13 | MYL. 0.01 μF           |     |    |
| 1             | 08S40805F21 | CER. 0.022 μ F         |          |   | \         | ì             | 1           | MYL. 0.01 μF           |     | ı  |
| C213          | 1           | 1                      | 1 1      |   | 1         | C255          | 08S40805F21 | CER. 0.022 μ F         |     | !  |
| C214          | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C256          | 08S40805F21 | CER. 0.022 μ F         |     | į  |
| C215          | 08S40805F21 | CER. 0.022 µ F         |          | 1 | •         | C257          | 08S40656F13 | MYL. 0.01 μF           |     | i) |
| C216          | 08S40805F21 | CER. 0.022 µ F         |          | J | 0         | C257          | 08S40656F13 | MYL. 0.01 μF           |     |    |
| C218          | 23S40657F30 | ELY. 3.3 μ F/50V       | 1 1      |   | •         | C258          | 08S40656F13 | MYL. 0.01 μF           |     |    |
| C219          | 23T43247F09 | ELY. 10 μ F/16V        |          |   | 0         | C258          | 08S40858F13 | MYL. 0.01 μF           |     |    |
| C213          | 23S40657F31 | ELY. 4.7 μ F/50V       |          | 1 | ě         | C301          | 08S40805F21 | CER. 0.022 \( \mu \) F |     |    |
| CLLO          | 2003001101  | 100 t 201 po 1 / 007   |          |   |           | 0001          | 00010000121 | υ. υ. υ. υ. μ ι        |     |    |
| ◆ C222        | 23S40657F13 | ELY. 47 μP/16V         |          |   | <b>\</b>  | C301          | 08S40805F21 | CER. 0.022 µ F         |     |    |
| ♦ C222        | 23S40657F13 | ELY. 47 μF/16V         |          |   |           | C302          | 08S40805F21 | CER. 0.022 µ F         |     |    |
| ◆ C223        | 21S40655F27 | CER. 220pF             |          | Į | •         | C303          | 21S40655F19 | CER. 47pF              |     |    |
| ♦ C223        | 21S40655F27 | CER. 220pF             |          | 1 | 0         | C303          | 21S40655F19 | CER. 47pF              | 1 1 |    |
| ◆ C224        | 08S40805F21 | CER. 0.022 μ F         |          |   |           | C304          | 08S40805F21 | CER. 0.022 µ F         |     |    |
|               |             |                        | 1.       | ĺ |           |               |             |                        |     |    |
|               |             |                        |          |   |           | 1             |             |                        |     |    |
|               | <u> </u>    | del only (14)          | · For No |   |           | L             | L           |                        |     |    |

Note: ●: For Japanese model only (JA)

■: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆:</sup> For West Germany model only (T-117L SD)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

| Symbol<br>No. | Part No.    | Description                       | S          | ymbol<br>No. | Part No.    | Description                      |   |
|---------------|-------------|-----------------------------------|------------|--------------|-------------|----------------------------------|---|
| C305          | 08S40805F21 | CER. 0.022 µ F                    | •          | C417         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C306          | 08S40805F21 | CER. 0.022 μ F                    |            | C418         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C307          | 08S40805F21 | CER. 0.022 μ F                    |            | C419         | 23T43247F04 | ELY. 0.47 µF/50V                 | ì |
| C308          | 08S40805F21 | CER. 0.022 μ F                    | 1          | C420         | 23S40657F27 | ELY. 0.47 \(\mu\) F/50V          |   |
| C309          | 23S40657F10 | ELY. 10 μF/18V                    |            | C421         | 08S40656F13 | MYL. 0.01 μF                     |   |
| 0303          | 20040007110 | DD1. 10 p.1/101                   |            |              |             |                                  |   |
| C310          | 08S40805F21 | CER. 0.022 µF                     |            | C422         | 23S40657F10 | ELY. 10 μF/16V<br>ELY. 10 μF/16V |   |
| C311          | 08S40805F07 | CER. 1000pF                       |            | C423         | 23S40857F10 |                                  |   |
| C312          | 08S40805F21 | CER. 0.022 μ F                    |            | C424         | 23S40657F29 | ELY. 2.2 \( \mu \) F/50V         |   |
| C313          | 08S40805F21 | CER. 0.022 μ F                    | 1          | C425         | 23S40657F29 | ELY. 2.2 μ F/50V                 | Ì |
| C314          | 23S40657F30 | ELY. 3.3 μ F/50V                  |            | C426         | 23S40657F14 | ELY. 100 μ F/16V                 |   |
| C315          | 08S40805F21 | CER. 0.022 µ F                    | •          | C427         | 21S40655F24 | CER. 120pF                       |   |
| C316          | 23S40657F30 | ELY. 3.3 \( \mu \) F/50V          |            | C427         | 21S40655F24 | CER. 120pF                       |   |
| C317          | 23S40657F27 | ELY. 0.47 µF/50V                  | •          | C428         | 08T52448F06 | PP. 510pF                        |   |
| C318          | 08S40805F21 | CER. 0.022 $\mu$ F                |            | C428         | 08T52448F10 | PP. 750pF                        |   |
| C320          | 08S40805F21 | CER. 0.022 μ F                    | *          | C428         | 08T52448F06 | PP. 510pF                        |   |
| C321          | 08S40805F07 | CER. 1000pF                       | •          | C428         | 08T52448F06 | PP. 510pF                        |   |
| C322          | 23S40657F14 | ELY. 100 μ F/16V                  | ☆          | C428         | 08T52448F06 | PP. 510pF                        |   |
|               | 08S40805F21 | CER. 0.022 µ F                    | ô          | C428         | 08T52448F06 | PP. 510pF                        |   |
| C323          | 08S40805F21 | CER. 0.022 μ F                    | Ĭ          | C429         | 08T52448F06 | PP. 510pF                        |   |
| C327<br>C328  | 23S40857F10 | ELY. 10 μF/16V                    |            | C429         | 08T52448F10 | PP. 750pF                        |   |
|               |             |                                   |            | 0400         | 00750440700 | DD 510=D                         |   |
| C329          | 21S40655F24 | CER. 120pF                        | <b> </b> * | C429         | 08T52448F06 | PP. 510pF                        |   |
| C329          | 21S40655F24 | CER. 120pF                        | •          | C429         | 08T52448F06 | PP. 510pF                        | ŀ |
| C330          | 21S40655F11 | CER. 10pF                         | ☆          | C429         | 08T52448F06 | PP. 510pF                        |   |
| C331          | 21S40655F27 | CER. 220pF                        | ♦          | C429         | 08T52448F06 | PP. 510pF                        |   |
| C331          | 21S40855F27 | CER. 220pF                        |            | C430         | 08S40856F13 | MYL. 0.01 μF                     |   |
| C332          | 21S40655F29 | CER. 330pF                        |            | C431         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C333          | 08S40805F21 | CER. 0.022 µ F                    |            | C432         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C401          | 23S40657F10 | ELY. 10 μF/16V                    |            | C433         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C402          | 23S40657F10 | ELY. 10 μF/16V                    |            | C434         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C403          | 23S40857F14 | ELY. 100 μ F/16V                  |            | C435         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| 0404          | 23S40657F10 | ELY. 10 μF/16V                    |            | C437         | 21S40655F23 | CER. 100pF                       |   |
| C404          | 1           | ELY. 10 μF/16V                    |            | C438         | 08T52448F07 | PP. 560pF                        |   |
| C405          | 23S40657F10 | CER. 1000pF                       |            | C439         | 23S40657F10 | ELY. 10 μF/16V                   |   |
| C406          | 08S40805F07 | 1                                 | 11         | C440         | 23S40657F02 | ELY. 47 μF/6.3V                  |   |
| C407<br>C408  | 1           | MYL. 0.047 μF<br>ELY. 0.47 μF/50V |            | C441         | 23S40657F10 | 1                                |   |
|               |             |                                   |            | CATO         | 99040057011 | ELY. 22 μF/16V                   |   |
| C409          |             | ELY. 1 \( \mu \) F/50V            | П          | C442         | 23S40657F11 | •                                |   |
| C410          | 1           | ELY. 1 μ F/50V                    |            | C501         | 23S40657F26 | ELY. 47 μF/35V                   |   |
| C411          |             | I                                 | H          | C502         | 23S40657F28 | ELY. 1 \( \mu \) F/50V           |   |
| C412          |             |                                   | 11.        | C503         | 23S40657F27 | ELY. 0.47 μF/50V                 |   |
| C413          | 23S40657F14 | ELY. 100 μ F/16V                  | •          | C504         | 23S40657F27 | ELY. 0.47 μF/50V                 |   |
| C414          | 23S40857F14 | ELY. 100 μ F/16V                  | •          | C505         | 23S40657F28 | ELY. 1 μ F/50V                   |   |
| ★ C415        |             | PP. 750pF                         | 11         | C506         | 23S40657F03 | ELY. 100 μ F/6.3V                |   |
| ☆ C415        | 1           | 1                                 | •          | C509         | 08S40805F07 | CER. 1000pF                      |   |
| ★ C416        | 1           | PP. 750pF                         | •          | C510         | 08S40805F07 | CER. 1000pF                      | 1 |
| ☆ C416        | 1           | PP. 750pF                         | •          | C511         | 08S40805F21 | CER. 0.022 µ F                   |   |
|               |             |                                   |            |              |             |                                  |   |

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK) 

♦: For West Germany model only (T-117L SD)

A: For General Foreign model only (T-03 EK) 

♦: For West Germany model only (T-03L SD) Others: Common

| •          | mbol | Part No.    | Description              |       | 8  | Symbol<br>N- | Part No.    | Description          | 1   |
|------------|------|-------------|--------------------------|-------|--|--------------|-------------|----------------------|-----|
| 7          | No.  | 21010055715 | 000                      |       | <u>                                    </u>      | No.          |             |                      | _   |
| -          | C512 | 21S40655F17 | CER. 83pF                |       | •  | C704         | 23S40657F27 | ELY. 0.47 μF/50V     | -   |
| 1          | C513 | 21S40655F17 | CER. 33pF                |       | •  | C705         | 23S40657F31 | ELY. 4.7 μ F/50V     | l   |
| 1          | C514 | 08S40805F21 | CER. 0.022 µ F           |       | •  | C706         | 23S40657F31 | ELY. 4.7 μF/50V      |     |
| ١          | C515 | 21S40655F17 | CER. 33pF                |       | •  | C709         | 23S40657F12 | ELY. 33 μF/16V       | - 1 |
| - 1        | C516 | 21S40655F17 | CER. 33pF                |       | •  | C710         | 08T42081U12 | POLY.300pF           |     |
|            | 05.5 | 00040005701 | OPP A AGG P              |       |  | 0711         | 00040057704 | DIV 4 7 D/COV        |     |
| - 1        | C517 | 08S40805F21 | CER. 0.022 μ F           |       | •  | C711         | 23S40657F31 | ELY. 4.7 μ F/50V     |     |
| ĺ          | C518 | 21S40655F22 | CER. 82pF                |       | •  | C712         | 23S40657F10 | ELY. 10 μF/16V       | - 1 |
| -          | C519 | 21S40655F22 | CER. 82pF                |       |  | C713         | 23S40657F10 | ELY. 10 µF/18V       | ł   |
| - [        | C520 | 08S40805F21 | CER. 0.022 µ F           | 1   1 | •  | C714         | 23T42477F09 | ELY. B.P 4.7 μ F/25V | 1   |
|            | C522 | 21S40655F19 | CER. 47P                 |       | •  | C715         | 23T43247F08 | ELY. 4.7 μ F/25V     | ł   |
|            | C523 | 21S40655F17 | CER. 33pF                |       |  | C716         | 23T43247F05 | ELY. 1 μ F/50V       | ł   |
|            |      |             | 1 .                      |       |  | ľ            | 1           | ·                    |     |
|            | C524 | 23S40657F31 | ELY. 4.7 μ F/50V         |       | •  | C717         | 23T43247F05 | ELY. 1 μ F/50V       | 1   |
| ╸          | C525 | 23T41366F39 | ELY. B.P 0.47 μF/50V     |       | •  | VC301        | 20T47503F02 | Trimmer TZ03 (RED)   | - 1 |
| ▶          | C525 | 23T41366F39 | ELY. B.P 0.47 μF/50V     | ] ]   |  | VC301        | 20T47503F02 | Trimmer TZ03 (RED)   |     |
| >          | C525 | 23T41366F39 | ELY. B.P 0.47 μF/50V     |       |  | VC302        | 20T47503F02 | Trimmer TZ03 (RED)   |     |
|            | C603 | 08S40805F21 | CER. 0.022 µ F           |       | •  | VC303        | 20T47503F02 | Trimmer TZ03 (RED)   |     |
|            | C804 | 23S40657F10 | ELY. 10 μ F/16V          |       | 0  | VC303        | 20T47503F02 | Trimmer TZ03 (RED)   |     |
|            |      | 1           | 1                        |       | `  | 1            | 1           | 1                    | }   |
|            | C605 | 08S40805F21 | CER. 0.022 µ F           |       |  | VC304        | 20T47503F02 | Trimmer TZ03 (RED)   |     |
|            | C607 | 08S40805F21 | CER. 0.022 µ F           |       |  | VC401        | 20T47503F03 | Trimmer TZ03 (YEL)   |     |
|            | C609 | 08S40805F21 | CER. 0.022 μ F           |       |  | VC402        | 20T47503F03 | Trimmer TZ03(YEL)    |     |
|            | C610 | 21S40655F26 | CER. 180pF               |       |  |              |             |                      |     |
|            | C611 | 08S40805F21 | CER. 0.022 µ F           |       | 1  |              | 1           |                      | - 1 |
|            | C612 | 21S40655F06 | CER. 5pF                 |       |  |              | 1           |                      |     |
|            |      | 21S40655F26 | CER. 180pF               |       |  |              | 1           | }                    | - 1 |
|            | C813 | 1           |                          |       | <del>                                     </del> | <u> </u>     | <u> </u>    |                      |     |
|            | C614 | 21S40855F13 | CER. 15pF                |       | -  | oils         | 04704000001 | IDE 10 MAIL (DLV)    |     |
| _          |      |             | lann a m                 |       |  | L101         | 24T84602F01 | IFT. 10.7MHA (BLK)   |     |
| •          | C615 | 21S40655F03 | CER. 2pF                 |       |  | L103         | 24T50508F14 | IND. 2.2 μH          |     |
| ₽│         | C616 | 08S40805F21 | CER. 0.022 μ F           |       |  | L104         | 24T84602F01 | IFT. 10.7MHA (BLK)   | ļ   |
| <b>₽</b> j | C616 | 08S40805F21 | CER. 0.022 µ F           |       |  | L105         | 24T84605F01 | DISCR.               |     |
| ۶I         | C616 | 08S40805F21 | CER. 0.022 µ F           |       |  | L106         | 24T50508F14 | IND. 2.2 µH          | 1   |
| Ð          | C617 | 08S40805F21 | CER. 0.022 µ F           |       |  |              |             |                      |     |
| -          |      |             |                          |       |  | L107         | 24T50508F14 | IND. 2.2 μH          |     |
| •          | C617 | 08S40805F21 | CER. 0.022 $\mu$ F       |       |  | L108         | 24T50508F30 | IND. 47 μH           | ŀ   |
| >          | C617 | 08S40805F21 | CER. 0.022 µ F           |       | 1  | L109         | 24T50508F30 | IND. 47 μH           |     |
|            | C618 | 08S40805F21 | CER. 0.022 µ F           |       |  | L201         | 24T50508F14 | IND. 2.2 μH          |     |
|            | C619 | 08S40805F21 | CER. 0.022 µ F           |       | 1  | L202         | 24T84607F01 | VCO 10.7MHZ          |     |
| •          | C620 | 08S40805F21 | CER. 0.022 \( \mu \) F   |       |  |              | 22.52001101 |                      |     |
| i          |      | 1           |                          |       | •  | L203         | 24T50508F14 | IND. 2.2 µ H         |     |
| •          | C621 | 08S40805F21 | CER. 0.022 µ F           |       | $\Diamond$                                       | L203         | 24T50508F14 | IND. 2.2 μH          | -   |
|            | C622 | 21S40655F03 | CER. 2pF                 |       |  | L204         | 24T50508F14 | IND. 2.2 μH          |     |
| ٠          | C623 | 21S40655F11 | CER. 10pF                |       |  | L205         | 24T74509F01 | 10.7DOUBLER (BLK)    | - 1 |
|            | C624 | 08S40805F21 | CER. 0.022 $\mu$ F       |       | 1  | L206         | 24T74510F01 | 32.1TRIPLER          | İ   |
|            | C625 | 08S40805F21 | CER. 0.022 μ F           |       |  | 1200         | 21111010101 | An- 1111 mm          | 1   |
|            | -    |             |                          |       |  | L207         | 24T50508F11 | IND. 1.2 µH          |     |
|            | C626 | 08S40805F21 | CER. 0.022 µ F           |       |  | L208         | 24T74511F01 | 0.8MIXER             |     |
|            | C627 | 23S40657F14 | ELY. 100 \( \mu \) F/16V |       |  | L209         | 24T80074F01 | 0.8MIXER 2ND         |     |
|            | C701 | 23S40657F14 | ELY. 100 μ F/16V         | 1 1 1 | 1  | L210         | 24T50508F14 | IND. 2.2 µH          |     |
|            | C702 | 23S40857F31 | ELY. 4.7 \( \mu \) F/50V |       |  | L211         | 24T50508F14 | IND. 2.2 \(\mu\) H   |     |
|            |      | ľ           |                          |       |  | 0611         | #100000F14  | ΙΝυ. Δ. Δ μ ΙΙ       |     |
|            | C703 | 23S40657F28 | ELY. 1 μ F/50V           |       |  |              |             |                      |     |
|            |      |             |                          |       |  |              |             |                      |     |
|            |      | 1           | i                        |       | 1  |              | 1           | 1                    |     |

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

|               | ∎bol<br>No. | Part No.     | Description         |          | -     | ibol<br>Vo.  | Part No.      | Description              |
|---------------|-------------|--------------|---------------------|----------|-------|--------------|---------------|--------------------------|
| <del>-,</del> | NO.<br>L212 | 24T50508F38  | 1ND. 220 μH         | ├──┤ ├-  | Jac   |              | <u> </u>      | 11                       |
| - 1           | L212        | 24T50508F38  | IND. 220 # H        |          |       | 3401         | 09T84616F01   | Plate phone T5855        |
| - 1           | L212        | 24T50508F38  | IND. 220 $\mu$ H    | 1 11     |       | 3401         | 09T84616F01   | Plate phone T5855        |
| 1             |             |              | l i                 |          |       | 3401<br>3401 | 09T84616F01   | Plate phone T5855        |
| - 1           | L213        | 24T50508F38  | IND. 220 $\mu$ H    |          | ,     |              | 1             | 1                        |
|               | L214        | 24T50508F14  | IND. 2.2 μ H        | 1 11     | - 1   | E401         | 09T84616F01   | Plate phone T5855        |
| 1             |             |              |                     | 1 17     | å  E  | E401         | 09T84616F02   | Plate phone T5855        |
| -             | L215        | 24T50508F38  | IND. 220 μH         |          |       |              |               |                          |
|               | L216        | 24T50508F38  | IND. 220 µH         | '        |       | E401         | 09T84616F02   | Plate phone T5855        |
| <b>▶</b> [    | L217        | 24T50508F38  | IND. 220 μH         |          | E     | E501         | 09T84124F01   | Head phone MINI W        |
| >             | L217        | 24T50508F38  | IND. 220 µH         | 1 11     |       |              |               |                          |
| •             | L301        | 24T90785F01  | Trans. LW ANT       |          |       |              | <u> </u>      |                          |
| l             |             |              |                     |          |       |              | Stati         | ion Switch P.C. Board    |
| >             | L301        | 24T90785F01  | Trans. LW ANT       | -        |       |              |               |                          |
| 1             | L302        | 24T90784F01  | Trans. MW ANT       | <b> </b> | Tra   | ansisto      |               |                          |
|               | L303        | 24T67274F01  | SFL450B-3 (WHT)     |          | (     | Q801         | 48T81102F01   | 2SA1015                  |
|               | L304        | 24T53327F01  | AM IF (BLK)         |          | 0     | or           | 48T81104F01   | 2SA983A                  |
| ▶             | L305        | 24T57627F01  | Trans. LW OSC (BLK) |          | (     | Q802         | 48S43525F02   | 2SC1815                  |
|               |             |              |                     |          |       |              |               |                          |
| >             | L305        | 24T57627F01  | Trans. LW OSC (BLK) |          |       |              | <u> </u>      |                          |
|               | L306        | 24T53326F01  | Trans. AM OSC       |          | Dic   | odes         |               |                          |
| ١             | L307        | 24T50508F14  | IND. 2.2 µ H        |          | I     | D801         | 48T44813F01   | MA165TA                  |
| ╸┃            | L601        | 24T84590F01  | BALUN. 75-75        |          | I     | D802         | 48T44813F01   | MA165TA                  |
|               | L602        | 24T50508F14  | IND. 2.2 µ H        | 1 11     | I     | D803         | 48T44813F01   | MA165TA                  |
|               |             |              |                     |          | I     | D804         | 48T44813F01   | MA165TA                  |
|               | L603        | 24T50508F11  | IND. 1.2μH          |          |       | D805         | 48T44813F01   | MA165TA                  |
|               | L604        | 24T84596F01  | IFT. 10.7MHZ (BLK)  |          | 1     |              | 10111010101   |                          |
|               | L605        | 24T50508F14  | IND. 2.2 $\mu$ H    |          | 1,    | D806         | 48T44813F01   | MA165TA                  |
| _             | L606        | 24T50508F08  | 1ND. 0.68 µH        |          | - 1   | D807         | 48T44813F01   | MA165TA                  |
|               |             | 1            | 1                   |          | '     | 1000         | 40144010101   | MATOSTA                  |
| •             | L607        | 24T50508F14  | IND. 2.2 µH         |          |       |              |               | 1                        |
| R,            | eistors     | /Thermistors | L L                 | ┸        | Swi   | itches       | <u> </u>      |                          |
| )<br> <br>    | R5001       | 51T51133F02  | Block 100K ohm x4   | $\Box$   |       | S801         | 40T84654F01   | SKHHQW (DOWN             |
| <b>-</b>      | R5002       | 51T51133F03  | Block 10K ohm x7    |          |       | S802         | 40T84654F01   | SKHHQW (UP)              |
| - [           | VR101       | 18T42748F07  | SOL V 1K ohm        |          | 1     | S803         | 40T84654F01   | SKHHQW (FM)              |
|               |             |              | SOL V 47K ohm       |          | - 1   | S804         | 1             | 1 ' '                    |
| - 1           | VR102       | 18T42748F17  | 1                   | .        |       |              | 40T84654F01   | SKHHQW (AM)              |
|               | VR103       | 18T42748F17  | SOL V 47K ohm       | '        | •   8 | S805         | 40T84654F01   | SKHHQW (TV)              |
| _             | VD104       | 10T40749P17  | COL V 47V obs       |          |       | DONE         | 40704054701   | CAMINON (1 M)            |
|               | VR104       | 18T42748F17  | SOL V 47K ohm       |          | 1     | S805         | 40T84654F01   | SKHHQW (LW)              |
|               | VR201       | 18T42748F13  | SOL V 10K ohm       | 1 11     | - 1   | S805         | 40T84654F01   | SKHIQW (LW)              |
| ł             | VR202       | 18T42748F13  | SOL V 10K ohm       | 1 11     |       | S806         | 40T84654F01   | SKHHQW (MAIN)            |
| 1             | VR203       | 18T42748F17  | SOL V 47K ohm       | 1 11     |       | S807         | 40T84654F01   | SKHHQW (SUB)             |
|               | VR204       | 18T42748F07  | SOL V 1K ohm        | •        | •   8 | 808          | 40T84654F01   | SKHHQW (MAIN-SUB)        |
|               |             |              | 001 17 407 1        |          |       | 2002         | Lome to B     | OTHEROT (NEW PACE)       |
|               | VR301       | 18T42748F13  | SOL V 10K ohm       |          | - 1   | S809         | 40T84654F01   | SKHHQW (M7/M9)           |
|               | VR302       | 18T42748F13  | SOL V 10K ohm       |          | - 1   | S810         | 40T84654F01   | SKHHQW (M8/M20)          |
| -             | VR401       | 18T42748F24  | SOL V 680K ohm      |          | 8     | S811         | 40T84654F01   | SKHHQW (M9/M21)          |
|               | VR402       | 18T42748F24  | SOL V 680K ohm      |          | 8     | 812          | 40T84654F01   | SKHHQW (M10/M22)         |
|               | VR403       | 18T42748F17  | SOL V 47K ohm       |          | 8     | S813         | 40T84654F01   | SKHHQW (M11/M23)         |
|               |             |              |                     |          |       |              |               |                          |
|               | VR404       | 18T42748F19  | SOL VR 100K ohm     |          | 8     | S814         | 40T84654F01   | SKHHQW (M12/M24)         |
|               | VR501       | 18C42061J16  | VARIABLE 100K ohm   |          | 8     | 815          | 40T84654F01   | SKHHQW (M1~M12/M13 ~M24) |
|               | VR701       | 18T42748F11  | VOL. 4.7K-B         |          | - 1   | S816         | 40T84654F01   | SKHHQW (M1/M13)          |
| 1             | VR702       | 18T42748F15  | SOL V 22K ohm       |          | - 1   | 8817         | 40T84654F01   | SKHRQW (M2/M14)          |
| ) 1           |             | 1            | ı                   | 1 11     | 1     |              | i .           |                          |
|               | TH201       | 48T57369F13  | Thermistor 2.5K ohm | ] ] ]    | - 18  | 3818         | [ 40T84654F01 | SKHHQW (M3/M15)   1      |
|               | TH201       | 48T57369F13  | Thermistor 2.5K ohm |          | S     | 8818         | 40T84654F01   | SKHHQW (M3/M15)          |

Note: ●: For Japanese model only (JA)

| S        | y∎bol<br>No. | Part No.    | Description        |                         | Symbol<br>No. | Part No.                   | Description                 |      |
|----------|--------------|-------------|--------------------|-------------------------|---------------|----------------------------|-----------------------------|------|
| П        | S819         | 40T84654F01 | SKHHQW (M4/M16)    | <del></del>             | 110.          | 1                          | <u> </u>                    | il.  |
| }        | S820         | 40T84654F01 | SKHHQW (M5/M17)    |                         |               |                            | Miscellaneous               |      |
|          | S821         | 40T84654F01 | SKHHQW (M6/M18)    |                         | E101          | 09T84167F01                | Terminal, Antenna           | П    |
| -        | S822         | 40T84654F01 | SKHHQW (MEMORY)    |                         | . 1           | 09T84167F02                | Terminal, Antenna Mult      |      |
|          | 3022         | 40104004101 | Skiller (ribbox1)  | ( [[-                   |               |                            | Terminal, Antenna Mult      | 1 1  |
|          |              |             | ·                  | *                       | i             | 09T84167F02                | 1                           |      |
| ļ        |              | ļ           |                    |                         | E101          | 09T84167F02                | Terminal, Antenna Mult      |      |
| _        |              | <u> </u>    |                    | ^                       | E101          | 09T84167F02                | Terminal. Antenna Mult      |      |
|          |              | FL,         | Display P.C. Board |                         | E101          | 09T84167F02                | Terminal, Antenna Mult      |      |
| 14       | C's          |             |                    |                         | F001          | 65T55050F08                | Fuse, MF60NR 1A-125V        | 1 1  |
|          | 1C901        | 51T84655F01 | TC9190N            |                         |               | 65T52486F03                | Fuse, MF61NM 1A-125V        |      |
|          | 1C902        | 51T84655F01 | TC9190N            |                         | í             | 65T42077U13                | Fuse. Semko T-500mA         | ] }  |
|          | 10000        | 02.00.00    |                    | •                       | F001          | 65T42077U13                | Fuse. Semko T-500mA         |      |
|          |              |             |                    | ☆                       | F001          | 65T42077U13                | Fuse, Semko T-500mA         |      |
| D        | lodes        |             |                    | 0                       | F001          | 65T42077U13                | Fuse, Semko T-500mA         |      |
|          | D901         | 48T44813F01 | MA165TA            |                         | F002          | 65T52486F01                | Fuse. MF61NM 0.5A-125V      |      |
|          | D902         | 48T44813F01 | MA165TA            | ★                       | F002          | 65T42077U10                | Fuse, Semko T-250mA         |      |
|          |              |             |                    | •                       |               | 65T42077U10                | Fuse, Semko T-250mA         |      |
|          |              |             |                    |                         | F002          | 85T42077U10                | Fuse, Semko T-250mA         |      |
| S        | witches      |             |                    |                         | F002          | 65T42077U10                | Fuse. Senko T-250mA         | 1 1  |
|          | S901         | 40T84654F01 | SKHHQW (REC, CAL)  |                         | FL901         | 65T84168F01                | Meter. FL 10-BT-15GK        |      |
|          | S902         | 40T84654F01 | SKHHQW (PROG)      |                         | LD801         | 48T66616F02                | LED, SLR-54VR3 (RED)        |      |
|          | S903         | 40T84654F01 | SKHHQW (1F BAND)   |                         | LD802         | 48T66616F02                | LED. SLR-54VR3 (RED)        | 1 1  |
|          | S904         | 40T84654F01 | SKHHQW (AUTO SEEK) |                         |               |                            |                             |      |
|          |              |             |                    |                         | LD803         | 48T66616F02                | LED. SLR-54VR3 (RED)        | ) ]  |
|          |              |             |                    |                         | LD804         | 48T66616F02                | LED, SLR-54VR3 (RED)        |      |
|          |              |             |                    |                         | LD805         | 48T66616F02                | LED. SLR-54VR3 (RED)        |      |
| _        | apaci to     | L           | 1                  |                         | P001          | 28T66771F01                | AC Power Cord               |      |
|          | C901         | 08T65480F53 | CER. 2200P         | <del></del>    <u>-</u> |               |                            | AC Power Cord               |      |
|          | 1            | J           | CER. 2200P         |                         | LOOT          | 28T40916U01                | NO FOWER COLU               | ]    |
|          | C901         | 08T65480F52 | 1                  |                         | DOO:          | 00740010700                | AC Pours Cond               | [    |
|          | C901         | 08T65480F53 | CER. 2200P         | *                       | Į.            | 28T43812P03                | AC Power Cord               |      |
| *        | C901         | 08T65480F53 | CER. 2200P         |                         | P001          | 28T43812P04                | AC Power Cord               | 1 1  |
| <b>☆</b> | C901         | 08T65480F53 | CER. 2200P         | *                       |               | 28T43812P03                | AC Power Cord               |      |
|          |              |             |                    |                         |               | 28T43812P04                | AC Power Cord               |      |
| >        | C901         | 08T65480F52 | CER. 1800P         | [[                      | S001          | 40T84672F01                | Switch, Push SPUL12 (Power) |      |
|          | C902         | 08T65480F62 | CER. 0.022 μ F     |                         |               |                            |                             |      |
|          | C903         | 08T65480F53 | CER. 2200pF        | *                       | S002          | 40T80258F03                | Switch, Volt Select 2C      |      |
| •        | C903         | 08S65480F55 | CER. 3300P         | •                       | S002          | 40T80258F03                | Switch. Volt Select 2C      |      |
|          | C903         | 08T65480F53 | CER. 2200P         | ☆                       | S002          | 40T80258F01                | Switch, Volt Select 4C      |      |
|          |              |             |                    |                         | 1             | 40T80258F03                | Switch, Volt Select 2C      |      |
| k        | C903         | 08T65480F53 | CER. 2200P         |                         | T101          | 25T84662F01                | Power Trans                 |      |
| ٠,       | C903         | 08T6548DF53 | CER. 2200P         |                         |               | ]                          |                             |      |
| >        | C903         | 08S65480F55 | CER. 3300P         |                         | T101          | 25T84662F04                | Power Trans                 |      |
|          | C904         | 08T65480F62 | CER. 0.022 μ F     | *                       | 1             | 25T84662F03                | Power Trans                 |      |
| •        | C910         | 21C45322G25 | CER. 220P          | 2                       | T101          | 25T84662F02                | Power Trans                 |      |
|          | 0010         | 51040022020 |                    | ☆                       | I             |                            |                             |      |
| _ !      |              |             |                    | *                       |               | 25T84662F03<br>25T84662F02 | Power Trans Power Trans     | ]. ] |
|          |              | FL          | Switch P.C. Board  |                         |               |                            |                             |      |
| Ţ        | ransisto     | <del></del> |                    |                         |               |                            |                             |      |
|          | Q1001        | 48T81102F01 | 2SA1015            |                         |               |                            |                             |      |
|          | Q1002        | 48T57337F03 | 2SD1330            |                         |               |                            |                             |      |
|          | 1            | I           | ı                  | 1 11                    | 1             | İ                          | I                           |      |

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☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

◆: For West Germany model only (T-117L SD)

★: For General Poreign model only (EK)

# **Cabinet Assembly Parts List**

| Note: The parts without part numbers are not supplied | lote: The pa | e parts withou | t part numbers | are not | supplied. |
|---|--------------|----------------|----------------|---------|-----------|
|---|--------------|----------------|----------------|---------|-----------|

|            | hal ( | 111 |             |                        | -    |        | 0,,          | aho1       | IN-             | C. The parts #                               | ithout part numbers are no | <br>11041 |
|------------|-------|-----|-------------|------------------------|------|--------|--------------|------------|-----------------|--|----------------------------|-----------|
| 1          | ibol  | IN- | Part No.    | Description            |      |        | 1            | mbol<br>No |                 | Part No.                                     | Description                |           |
|            | lo.   | dex | *ED01000001 | Causa Tan              |      |        | <u></u>      | No.        | dex             | AOTE ON ADDOO                                | Haldan Wina OD             |           |
| •          | 1     | 1-D | 15D81388F01 | Cover, Top             |      | l      | 1            | 27         | 4-C             | 09T58943F09                                  | Holder, Wire 2P            |           |
|            | 1     | 1-D | 15D81388F01 | Cover, Top             |      | l      |              | 28         | 4-B             | 07A83876F01                                  | Support, FL                |           |
| *          | 1     | 1-D | 15D81388F01 | Cover, Top             |      |        |              | 31         | 5-A             | 64D83791F01                                  | Panel, Front               |           |
| •          | 1     | 1-D | 15D81388F01 | Cover, Top             |      |        |              | 31         | 5-A             | 64D83791F02                                  | Panel, Front               |           |
| ☆          | 1     | 1-D | 15D81388F02 | Cover. Top             |      | l      | <b>*</b>     | 31         | 5-A             | 64D83791F02                                  | Panel, Front               |           |
|            |       |     |             | 1                      |      |        |              |            |                 |  |                            |           |
|            | 1     | 1-D | 15D81388F02 | Cover, Top             |      |        | •            | 31         | 5-A             | 64D83791F03                                  | Panel, Front               |           |
|            | 2     |     | 75S72374F66 | Cushion, Rubber        |      |        | ☆            | 31         | 5-A             | 64D83791F05                                  | Panel, Front               |           |
|            | 3     |     | 03540036001 | Screw, W/washer (M4x8) |      |        | $ \diamond $ | 31         | 5-A             | 64D83791F04                                  | Panel. Front               |           |
| 1 1        | 4     |     | 03A82468F01 | Screw, Bind (M8x10)    |      |        |              | 32         | 2-F             | 77T84591F01                                  | TV. Tuner TEMN2. (FE601)   |           |
|            | 7     |     | 03C42723U01 | Screw. Cup (M3x6)      |      |        |              | 33         | 2-F             | 77T84597F01                                  | FM. Tuner TFFG3J115        |           |
|            | '     |     | 03042123001 | Screw, cup (Moxo)      |      |        |              | 00         | L 1             | 77104037101                                  |                            |           |
| _          |       |     |             | 1. 1. m . 1            |      |        | 1            |            |                 |  | (FE101)                    |           |
| •          | 8     |     | 01A80230F01 | Assembly, Trannleg     |      |        | _            |            |                 |  |                            |           |
|            | 8     | }   | 01A80230F01 | Assembly, Trannleg     |      |        |              | 33         | 2-F             | 77T84597F03                                  | FM. Tuner TFFG3U114A       |           |
| •          | 8     |     | 01A80230F01 | Assembly, Trannleg     |      |        |              | ļ          |                 |  | (FE101)                    |           |
| *          | 8     |     | 75T57059F01 | PAD Trannleg           |      |        | ★            | 33         | 2-F             | 77T84597F03                                  | PM. Tuner TFFG3U114A       |           |
|            | 8     |     | 75T57059F01 | PAD Trannleg           |      |        |              |            |                 |  | (FE101)                    |           |
|            |       |     |             |                        |      |        | •            | 33         | 2-F             | 77T84597F02                                  | FM. Tuner TFFG3E127A       |           |
| ☆          | 8     |     | 75T57059F01 | PAD Trannleg           |      |        |              |            |                 |  | (FE101)                    |           |
|            | 9     |     | 75A67064F01 | Felt                   |      |        | ☆            | 33         | 2-F             | 77T84597F03                                  | FM. Tuner TFFG3U114A       | 1         |
|            | 9     |     | 75A67064F01 | Felt                   |      |        | 1            | ~~         | - '             | 1.101301100                                  | (FE101)                    |           |
|            |       |     | 75A67064F01 | 1                      |      |        | 0            | 33         | 2-F             | 77T84597F02                                  | FM, Tuner TFFG3E127A       |           |
| •          | 9     |     |             | Felt                   |      | 1 1    | 1            | 33         | <sup>2-</sup> F | 11104091102                                  |                            | İ         |
|            | 10    |     | 03S44205G20 | Screw, Pan (M4x12)     |      | 1      |              |            |                 |  | (FE101)                    |           |
|            |       |     |             |                        |      |        | 1_           | ١          | ١               |  | l                          |           |
|            | 11    | 5-G | 15C83802F01 | Cover. Rear            |      |        | •            | 34         | 2-E             | 09T51960F01                                  | Holder, Fuse               |           |
|            | 11    | 5-G | 15C83802F05 | Cover, Rear            |      |        |              | 34         | 2-E             | 09T51960F01                                  | Holder, Fuse               |           |
| *          | 11    | 5-G | 15C83802F02 | Cover. Rear            |      | 1      | <b>*</b>     | 34         | 2-E             | 09T51410F01                                  | Holder, Fuse (Semko)       |           |
| •          | 11    | 5-G | 15C83802F03 | Cover, Rear            |      |        | •            | 34         | 2-E             | 09T51410F01                                  | Holder, Fuse (Semko)       |           |
| ☆          | 11    | 5-G | 15C83802F07 | Cover, Rear            |      |        | ☆            | 34         | 2-E             | 09T51410F01                                  | Holder, Fuse (Semko)       |           |
|            |       |     |             |                        |      |        | 1            |            |                 |  |                            |           |
|            | 11    | 5-G | 15C83802F06 | Cover, Rear            |      |        | $ \diamond $ | 34         | 2-E             | 09T51410F01                                  | Holder, Puse (Semko)       |           |
| ľ          | 12    | -   | 03S71031F04 | Screw, Bind (M3x8)     |      |        |              | 35         | 4-H             | 55T84676F01                                  | Lock, Antenna Holder       |           |
| 1          | 15    |     | 03C42723U02 | Screw. Cup (M3x8)      |      |        |              | 36         | 3G              | 01T84592F02                                  | Assembly, Coax Cable RCA   | ļ         |
| 1          | 16    |     | 03S71031F02 | Screw, Bind (M2.6x8)   |      |        |              | 37         | 2-F             | 01T84592F01                                  | Assembly, Coax Cable       |           |
|            | 17    |     | 04A53398F01 | Washer, Nylon (M2.6)   |      |        |              | 38         | 3-F             | 01T84592F03                                  | Assembly, Coax Cable B.IM  |           |
| 1          | 11    |     | U4A00000FU1 | Washer, Nylon (M2.0)   |      |        |              | **         | 9-T             | 01104052705                                  | ASSEMBLY: COAX CADLE D. IN |           |
|            | ٠.    |     | 01001000001 | Annualty Passa Passa   |      |        | 1            | 40         | 4-2             | 40700510701                                  | Canasa B C Board           |           |
| -          | 18    | 5-C | 01C84628F01 | Assembly, Frame Front  |      |        |              | 40         | 4-E             | 43T93516F01                                  | Spacer P.C. Board          |           |
|            | 18    | 5-C | 01C90593F01 | Assembly, Frame Front  |      |        | *            | 41         | 1-D             | 03D40014G49                                  | Screw. W/washer (M3x8)     | 1         |
| *          | 18    | 5-C | 01C90593F01 | Assembly, Frame Front  |      |        | •            | 41         | 1-D             | 03D40014G49                                  | Screw. W/washer (M3x8)     |           |
| •          | 18    | 5-C | 01C90791F01 | Assembly, Frame Front  |      |        | .   ☆        | 41         | 1-D             | 03D40014G49                                  | Screw. W/washer (M3x8)     |           |
| ☆          | 18    | 5-C | 01C92804F01 | Assembly, Frame Front  |      |        | \$           | 41         | 1-D             | 03D40014G49                                  | Screw. W/washer (M3x8)     | 1         |
| }          |       |     |             |                        |      |        | 1            |            |                 |  |                            |           |
| $\Diamond$ | 18    | 5-C | 01C92203F01 | Assembly, Frame Front  |      |        | *            | 42         | 2-C             | 47C64899F44                                  | Shaft                      |           |
| •          | 21    | 3-A | 36B70885F07 | Knob. Power            |      |        | •            | 42         | 2-C             | 47C64899F44                                  | Shaft                      |           |
|            | 21    | 3-A | 36B70885F07 | Knob. Power            |      |        | ☆            | 42         | 2-C             | 47C64899F44                                  | Shaft                      |           |
| <b>★</b>   | 21    | 3-A | 36B70885F07 | Knob, Power            |      |        | <b>\Q</b>    | 42         | 2-C             | 47C64899F44                                  | Shaft                      |           |
|            | 21    | 3-A | 36B70885F07 | Knob. Power            |      | [      |              | 44         |                 | 14S56709F01                                  | Insulator, Transistor      |           |
| 1          |       | "   |             |                        |      |        | 1            |            | Į               |  |                            |           |
| 12         | 21    | 3-A | 36B70885F08 | Knob, Power            |      |        |              |            |                 |  |                            |           |
| <b>☆</b>   | 21    | 1   | 36B70885F08 | Knob, Power            |      |        | 1            |            |                 |  |                            | -         |
| 18         | 21    | 3-A | L           | 1                      |      |        |              |            |                 |  |                            |           |
|            | 22    |     | 03S44205G40 | Screw, Bind (M8x4)     |      |        |              |            |                 |  |                            | 1         |
| 1          | 23    | 4-G | 43B41625J02 | Support Cord           |      |        | 1            | '          |                 |  |                            |           |
| 1          | 24    | 3-D | 29A41814G01 | Lug                    |      |        |              |            |                 |  |                            |           |
|            |       |     |             |                        |      |        |              |            |                 |  |                            |           |
| 1          |       | 1   | 1           |                        |      |        | 1            |            |                 |  |                            |           |
| L          | L     | L   |             |                        |      |        |              |            |                 | <u>.                                    </u> |                            | <u></u>   |
| . 31 .     |       | -   |             | only (IA)              | D 11 | orth A |              |            | 11              | (11/2)                                       |                            |           |

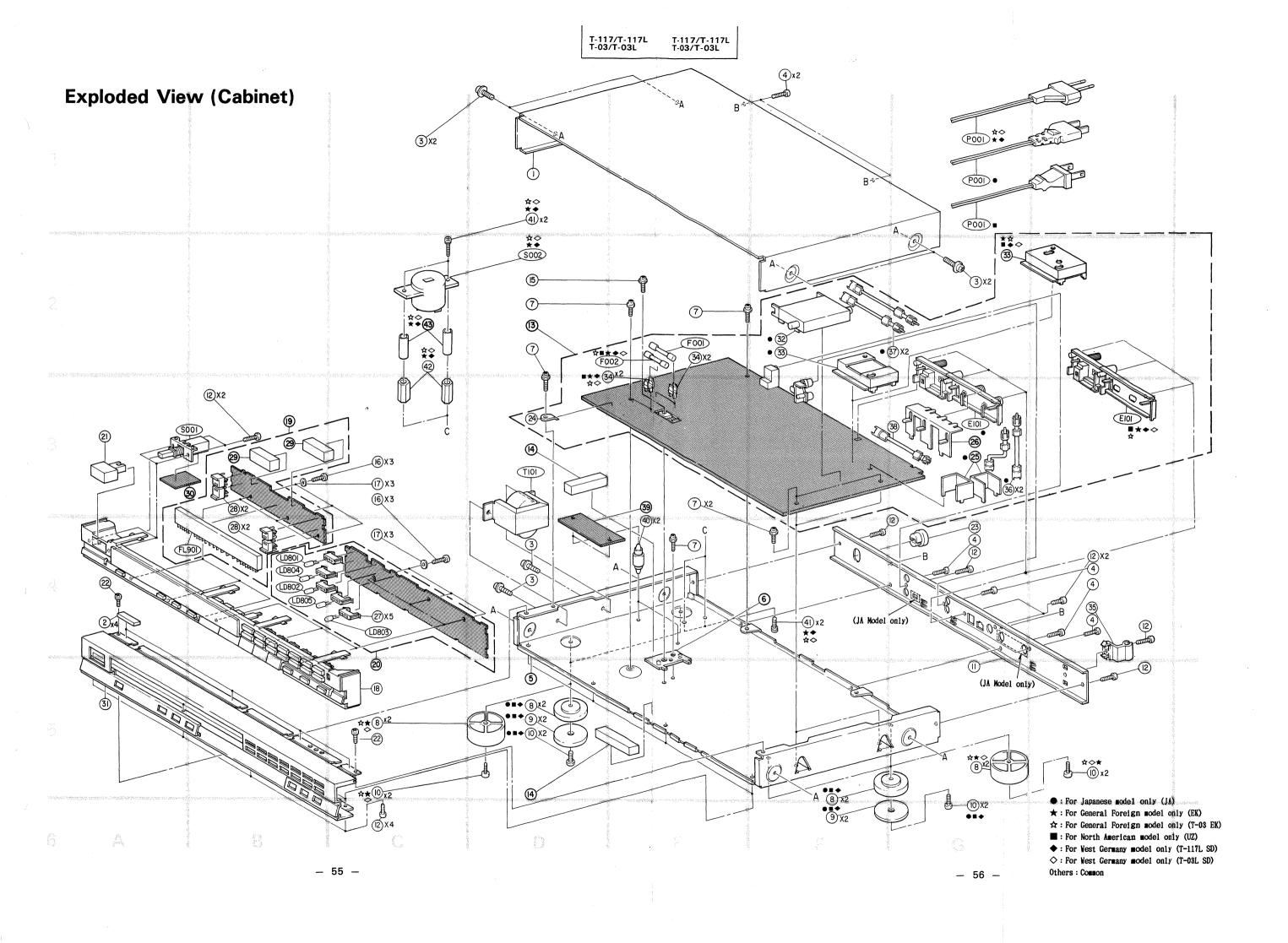
Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

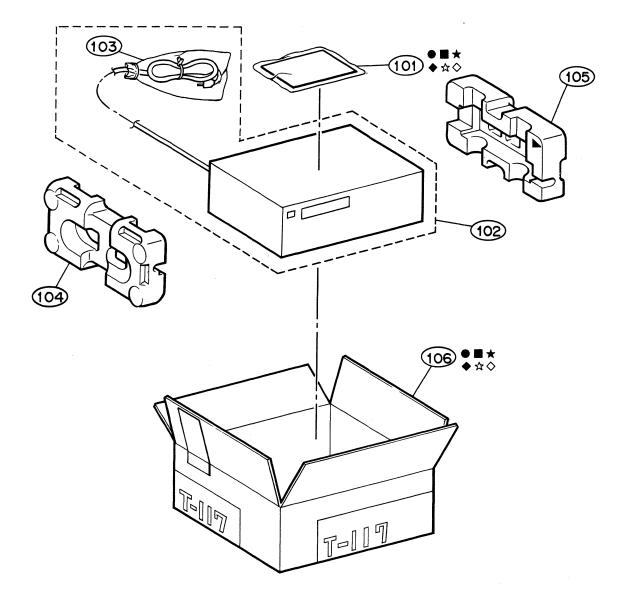
★: For General Foreign model only (EK)

◆: For West Germany model only (T-117L SD)

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common



# **Packing Method View**



# **Packing Assembly Parts List**

|     | mbol<br>No. | Part No.    | Description           |     |   | ;    | Symbol<br>No. | Part No. | Description |     |          |
|-----|-------------|-------------|-----------------------|-----|---|------|---------------|----------|-------------|-----|----------|
|     | 101-1       | 68P83132F28 | Owner's Manual        |     | 1 | 1 🗁  | T             |          |             | -   | $\vdash$ |
|     | 101-1       | 68P83132F29 | Owner's Manual        |     | 1 | 11   |               |          |             |     |          |
| - 1 |             |             | 1                     |     | 1 |      |               |          |             |     |          |
|     | 101-1       | 68P83132F30 | Owner's Manual        |     | 1 | П    |               |          |             |     |          |
|     | 101-1       | 68P83132F30 | Owner's Manual        | 1   | 1 | 11   |               |          |             |     |          |
|     | 101-1       | 68P83710F10 | Owner's Manual        |     |   | H    |               |          |             |     | l        |
|     | 101-1       | 68P83710F10 | Owner's Manual        |     |   | .    |               |          |             |     |          |
|     | 101-2       | 85T90254F01 | Antenna. PM           | ı   |   | Ш    |               |          |             |     |          |
| . 1 |             | 85T90254F02 | Antenna, FM           | J   | 1 | 11   |               |          |             |     |          |
|     | 101-2       |             | 1                     | - 1 | 1 | 11   |               |          |             |     |          |
|     |             | 85T90254F02 | Antenna, FM           | - 1 |   | Н    |               |          |             |     |          |
|     | 101-2       | 85T90254F02 | Antenna, FM           |     |   |      |               |          |             |     |          |
|     | 101-2       | 85T90254F02 | Antenna. FM           |     | İ |      |               |          |             |     |          |
| -   | 101-2       | 85T90254F02 | Antenna. FM           |     |   | 11   |               |          |             |     |          |
|     | 101-8       | 85T84674F01 | Antenna, AM           | - 1 | 1 | Ш    |               |          |             |     |          |
| 1   |             | 28T84675F01 | Plug, F-Type (FM)     |     |   |      |               |          |             |     |          |
|     |             |             |                       |     |   | Ш    |               |          |             |     |          |
|     | 101-5       | 09T71169F01 | Plug. TV. Antenna     |     | l | Ш    |               |          |             |     |          |
|     | 101-5       | 09T71169F01 | Plug. TV. Antenna     |     |   |      |               |          |             |     |          |
|     | 101-5       | 09T71169F01 | Plug, TV. Antenna     |     |   | Ш    |               |          |             |     | l        |
|     |             | 09T71169F01 | Plug, TV. Antenna     |     |   | 11   |               |          | •           |     | ł        |
|     | 101-6       | 28T70621F03 | Plug. Output          | 1   |   |      |               |          |             |     | L        |
| 1   | 101-7       | 01T82091F01 | Assy, Mini Plug Cord  |     |   | П    |               |          |             |     | ľ        |
|     | 101 /       | 01102031101 | hasy, milli flug cold |     |   |      |               |          |             |     |          |
|     | 101-8       | 28T67347F01 | Plug Audio Cable      |     |   |      |               |          |             |     |          |
|     | 101-8       | 28T67347F01 | Plug Audio Cable      | .   | 1 | 11   | ]             |          |             | j   |          |
|     | 102         | 56B40442T07 | Packing, Front Frame  |     |   |      |               |          |             |     |          |
|     | 103         | 56B40230G08 | Sack, Polyethylene    |     | 1 | 11   | 1             |          |             |     |          |
|     | 104         | 56D81391F01 | Packing, Tray         |     |   |      |               |          |             | į   |          |
|     |             |             |                       |     |   |      |               |          |             | - 1 |          |
|     | 105         | 56D81391F02 | Packing, Tray         |     |   | 11   |               |          |             |     | 1        |
| - 1 |             |             |                       |     | 1 | 11 . |               |          |             |     | 1        |
| 1   | 106         | 56S71001F96 | Carton, Packing       | ı   | 1 | 11   |               |          |             | ļ   |          |
| - 1 | 106         | 56S83833F15 | Carton. Packing       |     | 1 | H    | 1             |          |             | - 1 |          |
| - 1 | 106         | 56S83833F15 | Carton, Packing       |     | 1 |      |               |          |             |     |          |
|     | 106         | 56S83833F18 | Carton, Packing       |     | l |      |               |          |             |     |          |
|     | 106         | 56S83833F20 | Carton, Packing       |     |   |      |               |          |             |     | l        |
|     | 106         | 56S83833F19 | Carton Packing        | - 1 | 1 | 11   |               |          |             |     |          |
|     | 100         | 00300000111 | Carton, Facking       |     |   |      |               |          |             |     |          |
|     |             |             |                       |     | 1 |      |               |          |             |     |          |
| 1   |             |             |                       |     | 1 | 11   |               |          |             |     | 1        |
|     |             |             |                       |     |   |      |               |          |             |     |          |
| 1   | -           |             |                       |     | 1 |      |               |          |             | İ   |          |
| 1   |             |             |                       |     |   | 11   |               |          |             |     |          |
|     |             |             |                       |     | 1 | 11   |               |          |             |     |          |
|     |             |             |                       | -   |   | H    |               |          |             |     |          |
|     |             |             |                       |     |   | 11   |               |          |             |     |          |
|     |             |             |                       | 1   | 1 | 11   |               |          |             | 1   | 1        |
|     |             |             |                       | 1   |   | 11   |               |          |             |     |          |
|     |             |             |                       | 1   |   | H    |               |          |             |     |          |
|     |             |             | ,                     | - 1 |   | 11   |               |          |             |     |          |
|     |             |             |                       | 1   |   | H    |               |          |             | 1   |          |
|     |             |             |                       | - 1 |   | H    |               | ,        |             |     |          |
|     |             |             |                       | 1   |   | H    | 1             |          |             | 1   |          |
|     |             |             |                       | -   |   | H    |               |          |             | 1   |          |
|     |             |             |                       | 1   |   | H    | 1             |          |             | 1   |          |
|     |             |             |                       |     | 1 |      |               |          | l           | ı   | - 1      |
| l   | - 1         |             |                       |     | 1 |      | 1             |          |             |     | 1        |

Note: ●: For Japanese model only (JA)

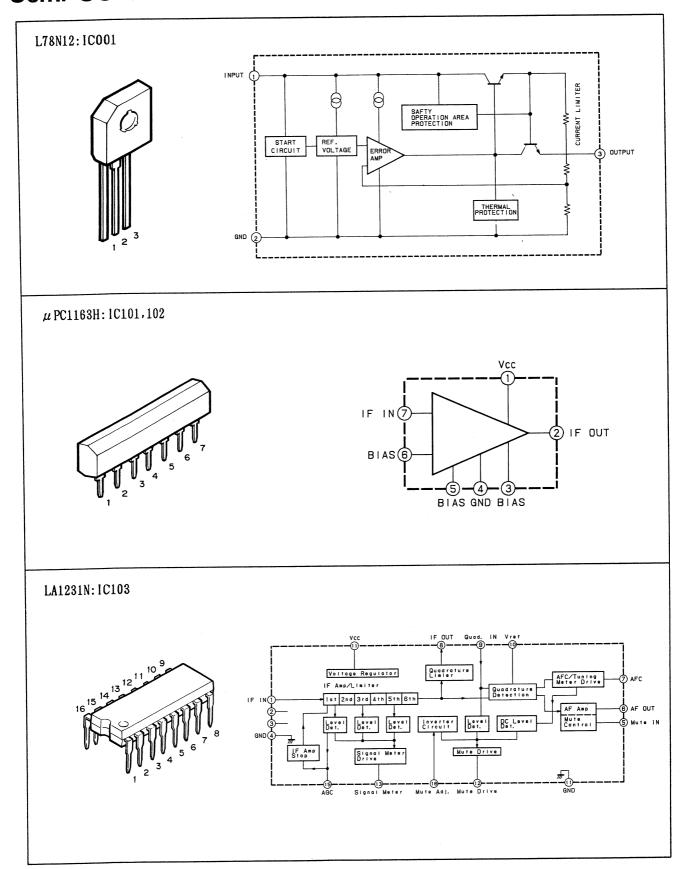
: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

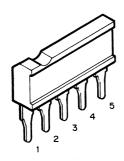
<sup>◆:</sup> For West Germany model only (T-117L SD)

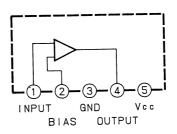
<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

# Semi-Conductor Lead Identifications

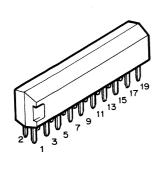


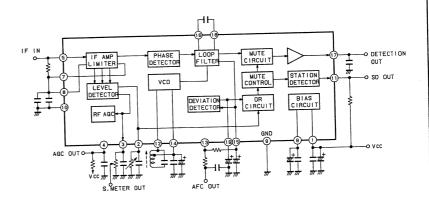
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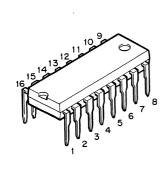


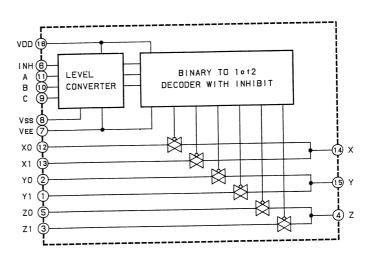
#### μ PC1211V: 1C201



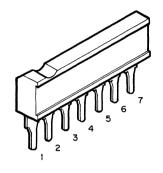


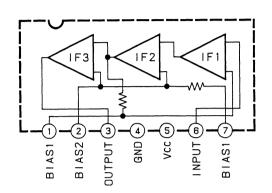
### BU4053B: IC202.506



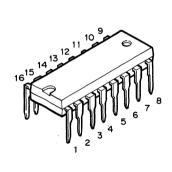


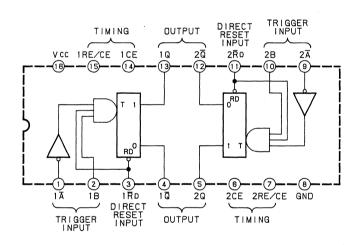
#### BA402:1C203



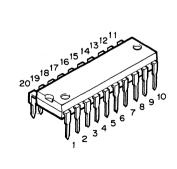


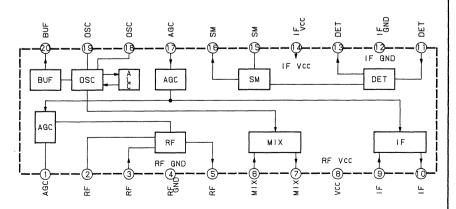
#### M74LS123P: IC204



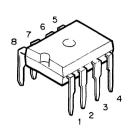


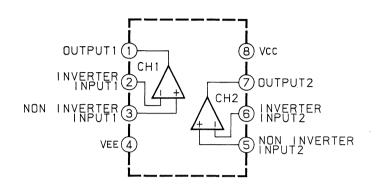
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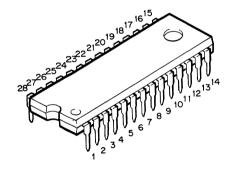


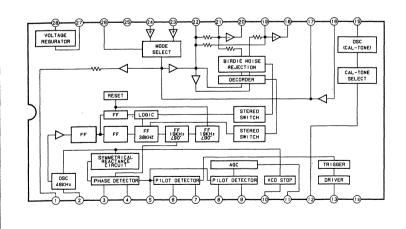
#### M5238P: IC401,404



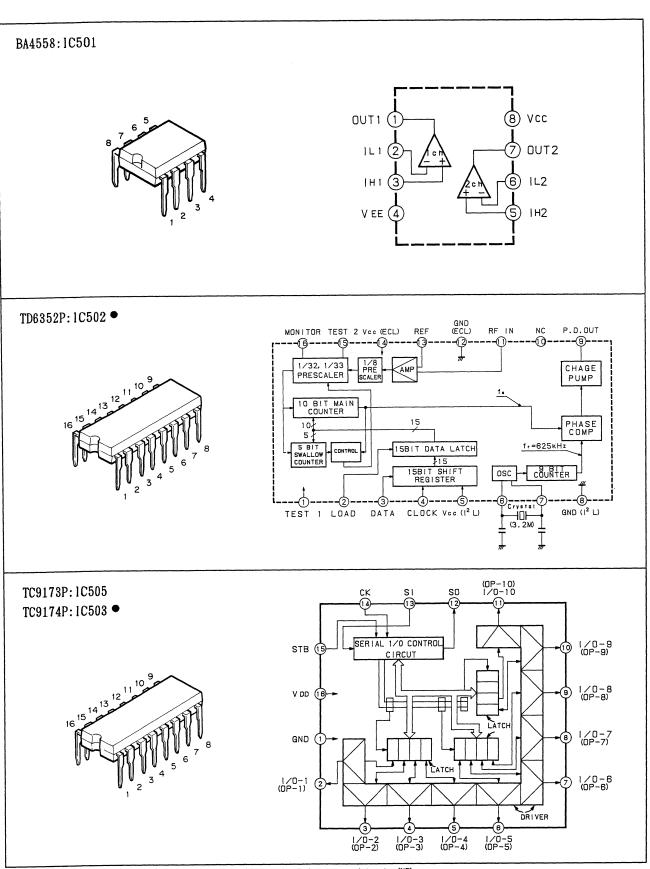


#### LA3450: IC402





| Pin No | DESCRIPTION              |
|--------|--------------------------|
| 1      | COMPOSITE AMP OUT        |
| 2      | OSC                      |
| 3      | LOOP FILTER              |
| 4      | LOOP FILTER              |
| 5      | PLL IN                   |
| 6      | PILOT SYNC DETECT FILTER |
| 7      | PILOT SYNC DETECT FILTER |
| 8      | PILOT SYNC DETECT FILTER |
| 9      | PILOT SYNC DETECT FILTER |
| 10     | VCO STOP                 |
| 11     | PILOT CANCEL             |
| 12     | CAL-TONE CONTROL         |
| 13     | STEREO INDICATOR         |
| 14     | GND                      |
| 15     | CAL-TONE OSC OUT         |
| 16     | CAL-TONE IN              |
| 17     | PILOT CANCEL IN          |
| 18     | POST AMP OUT             |
| 19     | POST AMP IN              |
| 20     | POST AMP OUT             |
| 21     | POST AMP IN              |
| 22     | SEPARATION ADJ           |
| 23     | AM IN                    |
| 24     | FM IN                    |
| 25     | SIGNAL GND               |
| 26     | AM/FM SELECT             |
| 27     | V REF                    |
| 28     | POWER SUPPLY             |



Note: lacktriangle: For Japanese model only (JA)

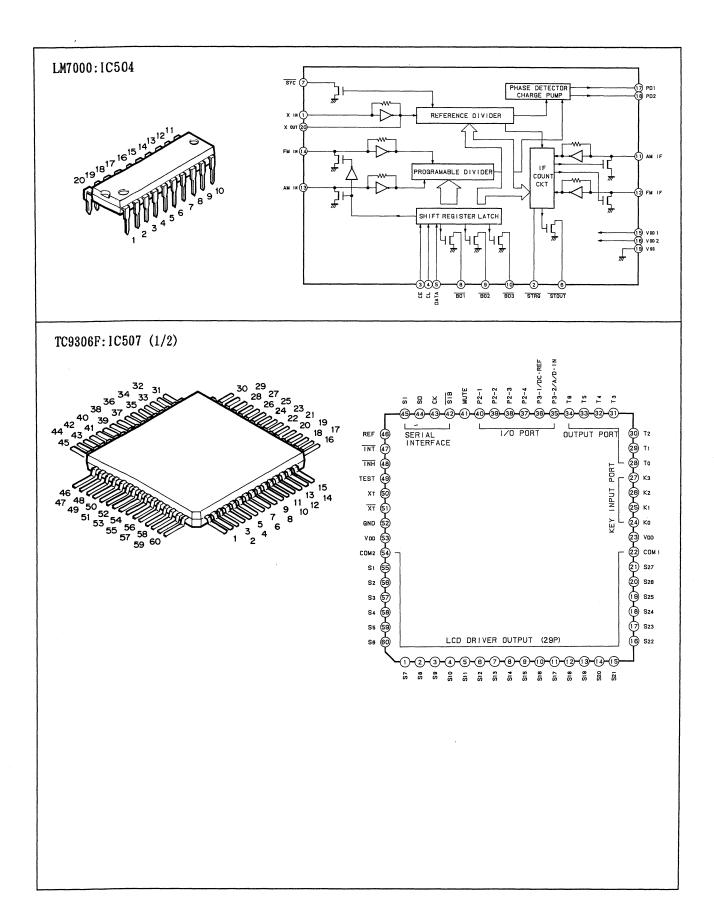
★: For General Foreign model only (EK)

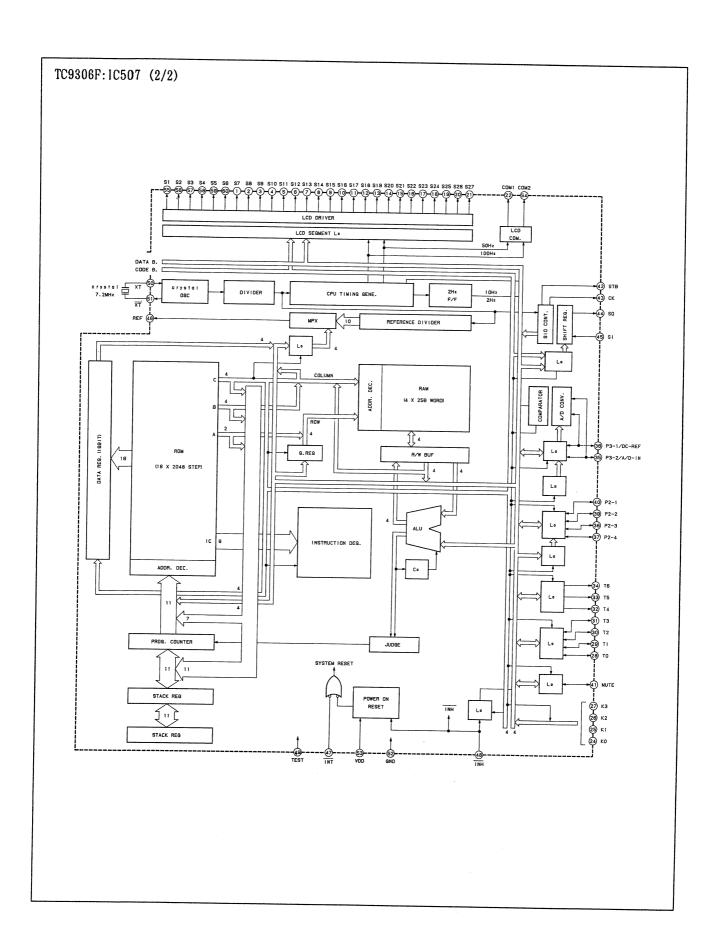
■: For North American model only (UZ)

◆: For West Germany model only (T-117L SD)

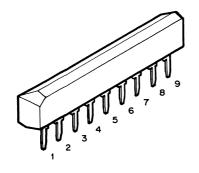
☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

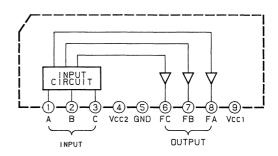
**- 63 -**



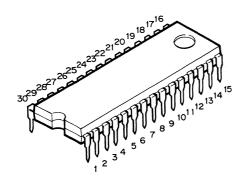


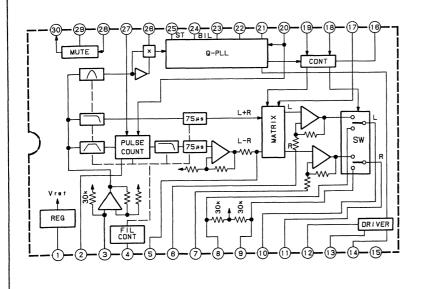
#### LA7905: IC601 •





#### LA3801: IC701 •





| Pin No | DESCRIPTION                   |
|--------|-------------------------------|
| 1      | Vcc                           |
| 2      | PULSE COUNT BIAS              |
| 3      | TV IN                         |
| 4      | FILTER ADJ.                   |
| 5      | SEPALATION ADJ.               |
| 6      | L CH (MAIN) GAIN              |
| 7      | R CH (SUB) GAIN               |
| 8      | FM (L) IN                     |
| 9      | FM (R) IN                     |
| 10     | AM (L) OUT                    |
| 11     | AM (R) OUT                    |
| 12     | ST IND.                       |
| 13     | BIL. (MAIN) IND.              |
| 14     | BIL.(SUB) IND.                |
| 15     | GND                           |
| 16     | TV/FM                         |
| 17     | PALARITY                      |
| 18     | BIL. (MAIN)                   |
| 19     | BIL. (SUB)                    |
| 20     | VCO-STOP                      |
| 21     | CERAMIC FILTER                |
| 22     | PLL LPF                       |
| 23     | PLL LPF                       |
| 24     | BIL.SYNCHRONOUS DETECTION LPF |
| 25     | ST SYNCHRONOUS DETECTION LPF  |
| 26     | AM DETECTION LPF              |
| 27     | PULSE COUNT LPF               |
| 28     | MUTE IN                       |
| 29     | Vec ON/OFF MUTE               |
| 30     | MUTE DRIVE                    |

Note: ●: For Japanese model only (JA)

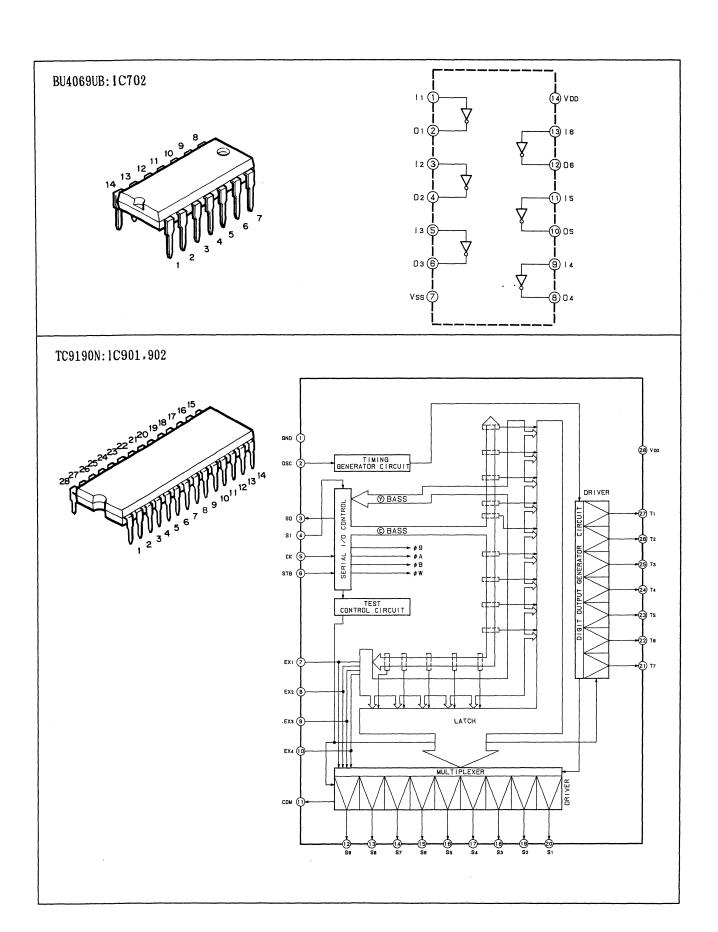
●: For Japanese model only (JA)

★: For General Foreign model only (EK)

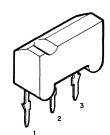
☆: For General Foreign model only (T-03 EK)

◇: For West Germany model only (T-03L SD)

Others: Common

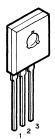


#### 2SD1330:Q1002



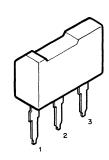
- 1. Emitter
- 2. Collector
- 3. Base

2SD1563:Q001



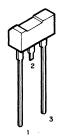
- 1. Emitter
- 2. Collector
- 3. Base

#### 2SD1225M:Q001 ☆★◇◆■



- 1. Emitter
- 2. Collector
- 3. Base

2SA1555AB:Q008.010.011 ◆◇◆ 2SC4032AB:Q006.012.111 ◆



- 1. Emitter/GND
- 2. Collector/OUT
- 3. Base/IN

2SA1015:Q1001,505 ●◇◆

2SA1015:-Q116.308.404.411.501.503.504.217♦◆ 2SA933A:-Q307♦◆.801.116

 $2SC1740: Q002.003.004.005.007.009.015.104.105.107.108.109 •.112.115.117.118 •.210.211.212.213. \\ 2SC1815: Q214.302.305.306.405 •.410.412 •.502.203 <math>\diamond$  •.215  $\diamond$  •.216  $\diamond$  •.301  $\diamond$  •.401  $\diamond$  •.

2SC1815:Q119.802

2SC1674:Q206.207.208.303.601 •.602 • > •

2SC1675:Q209,603

2SD1302:Q402.403.409



- 1. Emitter
- 2. Collector
- 3. Base

Note: •: For Japanese model only (JA)

<sup>■:</sup> For North American model only (UZ)

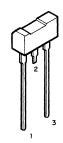
•: For West Germany model only (T-117L SD)

<sup>★:</sup> For General Foreign model only (EK)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

# 2SK246:Q113.114.201.202.406 2SK241:Q205 1. Source 1. Drein 2. Source 2. Gete 3. Drein 3. Gete 2SK301:Q407 ● , 408 ●

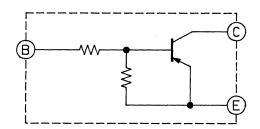
#### DTA124EL:Q510 ■



- 1. Emitter
- 2. Collector

1. Drein 2. Gete 3. Source

3. Base



Note: ●: For Japanese model only (JA)

★: For General Foreign model only (EK)

\$\phi\$: For General Foreign model only (T-03 EK)

\$\phi\$: For West Germany model only (T-117L SD)

\$\phi\$: For General Foreign model only (T-03 EK)

\$\phi\$: For West Germany model only (T-03L SD) Others: Common — 69 —